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Data Index for Energy Transfer Collisions of Atoms and Molecules 1970-1979

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[2] Some divisions within the center are located at Boulder, CO 80303.

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Data Index for Energy Transfer Collisions of Atoms and Molecules—1970-1979

J. W. Gallagher, Janet Van Blerkom,
E. C Beaty, and J. R. Rumble, Jr.

Joint Institute for Laboratory Astrophysics
University of Colorado and National Bureau of Standards
Boulder, Colorado 80309

U.S. DEPARTMENT OF COMMERCE, Malcolm Baldrige, Secretary
NATIONAL BUREAU OF STANDARDS, Ernest Ambler, Director

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Foreword

The National Standard Reference Data System was established in 1963 for the purpose of promoting the critical evaluation and dissemination of numerical data of the physical sciences. The program is coordinated by the Office of Standard Reference Data of the National Bureau of Standards but involves the efforts of many groups in universities, government laboratories, and private industry. The primary aim of the program is to provide compilations of critically evaluated physical and chemical property data. These tables are published in the *Journal of Physical and Chemical Reference Data,* in the NSRDS-NBS series of the National Bureau of Standards, and through other appropriate channels.

The task of critical evaluation is carried out in various data centers, each with a well-defined technical scope. A necessary preliminary step to the critical evaluation process is the retrieval from the world scientific literature of all papers falling within the scope of the center. Each center, therefore, builds up a comprehensive well-indexed bibliographical file which forms the base for the evaluation task. Bibliographies derived from these files are published when they appear to be of value to research workers and others interested in the particular technical area.

Further information on NSRDS and the publications which form the primary output of the program may be obtained by writing to the Office of Standard Reference Data, National Bureau of Standards, Washington, DC 20234.

David R. Lide, Jr., Chief
Office of Standard Reference Data

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Data Index for Energy Transfer Collisions of Atoms and Molecules—1970–1979

J. W. Gallagher, Janet Van Blerkom, E. C. Beaty, and J. R. Rumble, Jr.

Joint Institute for Laboratory Astrophysics, University of Colorado and National Bureau of Standards, Boulder, Colorado 80309

An index to sources of data describing processes which occur when atoms, molecules or ions collide with each other at energies between 0 and 10 keV and gain or lose internal energy or change charge state is presented. The index facilitates retrieval of cross sections and reaction rate data for specific processes involving atomic or molecular species. It includes data published during the years 1970 through 1979. A comprehensive author list is included.

Key words: Atom; charge transfer; chemi-ionization; collisional ionization; cross section; detachment; energy transfer; excitation; ion; molecule; reaction rate; relaxation.

Introduction

Microscopic processes occurring in gas discharges, lasers, plasmas, atmospheric, and astrophysical systems include collisions of atoms, molecules, and ions with each other and with free electrons as well as the interaction of these particles with radiation fields. Reaction rates and cross sections for these processes are required to formulate realistic descriptions or models of such systems from which their physical properties can be predicted. These data, if they exist, are reported in a large number of journals published throughout the world. The systems modeler and research scientist are faced with an immense task in maintaining awareness of existing data and commentary and in locating the data they need. This publication is one of a series produced by the JILA Information Center for the purpose of simplifying that task by providing an organized listing of data sources on specific processes [1-7][1].

Background

This index results from a program which started nearly twenty years ago to collect and evaluate data on collisions of electrons and photons with atoms, simple molecules and their ions. In 1976, the program was expanded to identify data describing energy transfer collisions between atoms, molecules, and ions. A quarterly newsletter providing an index to currently published data on energy transfer collisions was initiated in April 1977 [4]. A retrospective search to identify data published in 1970 through 1975 was begun in the summer of 1978. A manual search was made of the journals in which most of the data appears. To cover the remaining journals, Physics Abstracts and Chemical Abstracts were searched by computer for articles bearing descriptors appropriate to the subject of energy transfer. The articles so identified were then reviewed to determine whether they contained data. This report combines the results of these efforts and gives a comprehensive listing of data on energy transfer collisions published in the decade beginning in 1970 and ending in 1979. Some data sources may not have been identified, particularly those published in the latter half of 1979, as these might not have been available at the time this report went to press. Data found in informal publications such as technical reports with limited circulation or private communications are excluded, but those reported in abstracts which contain numerical data with some description of technique are included.

Scope

This report provides an index to sources of numerical data describing processes which occur when atoms, molecules, or ions collide at energies between 0 and 10 keV. Prior to the collision, the energy of the system is distributed among the kinetic and potential energies of the two colliding particles; after the collision, the energy may have been redistributed by one or more of several modes. The scope of this report includes numerical data relating to any of these modes of redistribution in which colliding particles gain or lose internal energy or change charge state. Although a rearrangement of chemical bonds implies a change in internal energy, this mode is excluded because the volume of data that has been reported is preponderant. (The exception to this rule is the inclusion of associative ionization in the chemi-ionization category; although associative ionization involves a rearrangement of chemical bonds, it frequently occurs in the same systems as Penning ionization.)

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[1] Figures in brackets indicate literature references.

The energy transfer data typically gives a partial picture of the collision in that often the change of state of one, but not both, of the collision partners is observed, so the complimentary source or deposition of energy is not known. This report includes, and attempts to organize, these fragments of data in a constructive manner. Details of the organization are given below. The data are in the form of cross sections, reaction rates, transition probabilities or relaxation times. Sources which discuss these processes but do not include numerical data are included, but listed separately.

Papers dealing with elastic scattering, potential surfaces, dissociation, and dissociative charge transfer are excluded.

Organization

This report is divided into three major parts: a Data Index, a Bibliography, and an Author Index.

The Data Index lists sets of data characteristics followed by sources of data having those characteristics. Each data source is specified by the citation number, first author's name, and year of publication, and is assigned to one or more of these sets of data characteristics. By understanding the organization of the sets, the user should be able to easily locate entries containing data of interest to him.

The Bibliography gives complete references with an identifying citation number. The citation number is also used in the data and author indices as a shorthand identification of the reference.

In the Author Index, all authors are listed alphabetically by surname. After each author's name is a list of citation numbers indicating the references authored or co-authored.

Each set of data characteristics specifies the following three items which are further discussed below: Process, Method and Species.

Process

The specific processes fall primarily into broad categories of energy-loss, energy-gain, and change of charge state. The energy-loss category includes Electronic, Vibrational, and Rotational Relaxation. In these processes a decrease in the internal energy of one of the collision partners is observed or calculated but the deposition of that energy is not necessarily specified. It is assumed to contribute to the internal or translational energy of the second particle. The energy-gain category includes Electronic, Vibrational, and Rotational Excitation; here an increase in the internal energy of one of the collision partners is observed or calculated. Its source is not always specified, but it is assumed to come from the internal or translational energy of the collision partner.

The change of charge state classification includes Collisional Ionization, Detachment, Chemi-ionization, and Charge Transfer. In Collisional Ionization and Detachment, the source of energy is assumed to be the relative translational energy of the colliding particles. In Chemi-ionization the source of energy is, instead, the internal energy of one of the colliding particles. In Charge Transfer, an electron is transferred from one to the other of the colliding particles which may be neutrals or positive or negative ions.

Two processes are exceptions to these broad categories: Miscellaneous Energy Transfer and Inelastic Collisions in a Radiation Field. Some very general discussions of two-particle energy transfer collisions do not clearly fit the energy-loss, energy-gain, or charge transfer categories. These are usually theoretical and are entered under the Miscellaneous Energy Transfer process.

The presence of a radiation field may significantly affect the transfer of energy (or charge) in a two-particle collision. Data and discussions of this effect are listed under the process Collisions in a Radiation Field.

Method

The method of obtaining the data is defined as Experimental if it results from observation and Theoretical if it results from calculations.

Species

The colliding atomic or molecular species (including degree of ionization) are listed in the form A+B. The indexing convention is that the particle which loses energy, A, is listed first; the particle which gains energy, B, is listed second. The one exception to this convention is detachment, where the negative ion, the species of primary interest, is listed first. The list of reactants is ordered by number of nuclei in reactant A and alphabetically for each number of nuclei. Electronically excited species are indicated by an asterisk.

Other References

Sources of original numerical data in the form of cross sections, reaction rates, transition probabilities or relaxation times are listed under the subheading of *Original Data*. Sources giving bounds on these quantities are also listed under this heading.

Although this report is primarily intended as a list of these sources of original data, two types of papers which do not satisfy the criteria for the Original Data category but which may be helpful to the user are also included. The same indexing system has been used as for Original Data. Entries under the subheading of *Reviews* refer to papers giving critical discussions of data or surveys of progress in relevant fields. Reviews often include data which have been previously published elsewhere, and are valuable as sources of data and evaluation of their reliability. Entries under the subheading *Miscellaneous Reference* refer to papers which contain either general theory, commentary on, or interpretation of processes occurring in an energy transfer system.

Acknowledgments

The Atomic Collision Cross Section Information Center is part of the National Standard Reference Data System (NSRDS) of the National Bureau of Standards.

The authors would like to express thanks to Patricia Ruttenberg and Patti Krog for their assistance in preparing this index.

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I. Data Index

ROTATIONAL EXCITATION EXPERIMENTAL

REVIEW

H^{+1}	+	H_2	14332	Teloy,	77
–	–		15010	Bailey,	78
			15156	Doering,	73
			15164	Amme,	75

ORIGINAL DATA

Ar	+	CO^{+1}	12473	Moran,	71
Ar	+	CsCl	7195	Armstrong,	75
Ar	+	CsF	7794	Borkenhagen,	75
			8887	Borkenhagen,	76
			14516	Borkenhagen,	79
Ar	+	CsI	7195	Armstrong,	75
			11148	Loesch,	72
Ar	+	HCl	8011	Ding,	75
			11351	Van Kreveld,	71
			14759	Esche,	79
Ar	+	HF	8011	Ding,	75
			14759	Esche,	79
Ar	+	LiF	9897	Reed,	77
			14502	Tsou,	79
Ar	+	LiH	9870	Wilcomb,	77
Ar	+	Li_2	12469	Ottinger,	71
			13921	Jeyes,	78
Ar	+	Na_2	13573	Bergmann,	72
			13582	Bergmann,	72
Ar	+	S_2	14525	Caughey,	79
Ar	+	CO_2	7796	Loesch,	75
			9225	Loesch,	76
Ar	+	CS_2	7797	Blais,	75
			9228	Blais,	77
Ar*	+	N_2	10217	Sadeghi,	77
			12099	Kassal,	71
H	+	H_2	13008	Dubreuil,	78
H	+	NH_2	14776	Dixon,	79
H^{+1}	+	CO	10417	Udseth,	74
H^{+1}	+	HCl	10417	Udseth,	74
H^{+1}	+	HF	10417	Udseth,	74
H^{+1}	+	H_2	8850	Rudolph,	76
			8992	McGuire,	76
			10791	Schmidt,	77
			11104	Hermann,	78
			12262	Schmidt,	78
He	+	CsF	14516	Borkenhagen,	79
He	+	HCl	8011	Ding,	75
			11351	Van Kreveld,	71
He	+	HD	10199	Gentry,	77
He	+	HF	8815	Hinchen,	76
He	+	Li_2	12469	Ottinger,	71
			13921	Jeyes,	78
He	+	N_2^{+1}	13408	Bregman-Reisler,	74

ROTATIONAL EXCITATION EXPERIMENTAL

ORIGINAL DATA

He	+	Na_2	13573	Bergmann,	72
			13582	Bergmann,	72
			14786	Bergmann,	79
He	+	Na_2*	14773	Wainger,	79
He	+	S_2	14525	Caughey,	79
He	+	CO_2	13176	Meyer,	74
He	+	H_2CO	12608	Foreman,	74
K	+	CO	14527	Schepper,	79
K	+	N_2	14527	Schepper,	79
K	+	CO_2	15221	Beck,	70
K	+	NH_3	9751	Kusunoki,	77
			10788	Kusunoki,	77
Kr	+	CsF	14516	Borkenhagen,	79
Kr	+	HCl	8011	Ding,	75
			14759	Esche,	79
Kr	+	HF	14759	Esche,	79
Kr	+	LiF	9897	Reed,	77
Kr	+	Li_2	12469	Ottinger,	71
Kr	+	Na_2	13573	Bergmann,	72
			13582	Bergmann,	72
Kr	+	CO_2	13176	Meyer,	74
Kr	+	CS_2	9228	Blais,	77
Li	+	Li_2	13055	Vidal,	78
Li^{+1}	+	CO	8262	Bottner,	76
			14509	Eastes,	79
Li^{+1}	+	H_2	7795	Faubel,	75
			10405	Lester Jr.,	74
			14703	Itoh,	79
			15314	Van Den Bergh,	73
Li^{+1}	+	N_2	8262	Bottner,	76
			14844	Lowe,	71
Ne	+	CsF	7794	Borkenhagen,	75
			8887	Borkenhagen,	76
			14516	Borkenhagen,	79
Ne	+	HD	9205	Buck,	77
Ne	+	N_2^{+1}	13408	Bregman-Reisler,	74
Ne	+	Na_2	13573	Bergmann,	72
			13582	Bergmann,	72
Ne	+	CS_2	9228	Blais,	77
Xe	+	CsF	14516	Borkenhagen,	79
Xe	+	CsI	7195	Armstrong,	75
Xe	+	HCl	14759	Esche,	79
Xe	+	HF	14759	Esche,	79
Xe	+	Li_2	12469	Ottinger,	71
Xe	+	Na_2	13573	Bergmann,	72
			13582	Bergmann,	72
Xe	+	Na_2*	12762	Brunner,	78

ORIGINAL DATA

Xe	+	Na_2^*	14265	Brunner, 79
Xe	+	S_2	14525	Caughey, 79
Xe	+	CS_2	9228	Blais, 77
Zn*	+	NO	14277	Breckenridge, 79
CN	+	Ar	11051	Duewer, 72
CO	+	CsF	7794	Borkenhagen, 75
			8887	Borkenhagen, 76
			14516	Borkenhagen, 79
CO	+	D_2	8484	Simpson, 76
CO	+	HD	9414	Allen, 77
CO	+	H_2	9414	Allen, 77
DCl	+	LiH	14519	Dagdigian, 79
D_2	+	HD	14539	Buck, 78
D_2	+	Na_2	13573	Bergmann, 72
			13582	Bergmann, 72
D_2	+	NH_3	11979	Daly, 70
HBr	+	HCl	8011	Ding, 75
HCl	+	HCl	8011	Ding, 75
HCl	+	LiH	14519	Dagdigian, 79
HD	+	HD	9868	Gentry, 77
HD	+	Na_2	13582	Bergmann, 72
HD	+	NH_3	11979	Daly, 70
HF	+	HCl	8011	Ding, 75
HF	+	HF	7677	Hinchen, 75
H_2	+	HF	8815	Hinchen, 76
H_2	+	Na_2	13573	Bergmann, 72
			13582	Bergmann, 72
H_2	+	Na_2^*	14773	Wainger, 79
H_2	+	OH	6638	German, 75
H_2	+	CO_2	13176	Meyer, 74
			13428	Meyer, 74
H_2	+	H_2CO	12608	Foreman, 74
H_2	+	NH_3	11979	Daly, 70
HI	+	HCl	8011	Ding, 75
I_2	+	I_2	12765	Jeyes, 78
I_2^*	+	He	11364	Kurzel, 71
I_2^*	+	Ne	11364	Kurzel, 71
I_2^*	+	H_2	11364	Kurzel, 71
I_2^*	+	I_2	11364	Kurzel, 71
Li_2	+	Ar	12034	Ottinger, 70
N_2	+	CsF	7794	Borkenhagen, 75
			8887	Borkenhagen, 76
			14516	Borkenhagen, 79
N_2	+	Na_2	13573	Bergmann, 72
			13582	Bergmann, 72
N_2	+	Na_2^*	14773	Wainger, 79
N_2	+	NH_3	11979	Daly, 70

ORIGINAL DATA

N_2^{+1}	+	CO	11183	Young, 72
NO	+	NO	12141	Poland, 71
Na_2	+	Na_2	10910	Sinha, 73
O_2	+	NH_3	11979	Daly, 70
CO_2	+	CsF	7794	Borkenhagen, 75
			8887	Borkenhagen, 76
			14516	Borkenhagen, 79
CO_2	+	H_2	9097	Tsuchiya, 76
			12464	Behnen, 71
CO_2	+	CO_2	13176	Meyer, 74
HCN	+	HCN	10907	Cohen, 73
H_2O	+	H_2O	6850	Bass, 74
H_2S	+	HCl	8011	Ding, 75
N_2O	+	CsF	14516	Borkenhagen, 79
OCS	+	He	11291	Lees, 78
OCS	+	HCl	13976	Williams, 79
OCS	+	H_2	11291	Lees, 78
OCS	+	N_2	13976	Williams, 79
OCS	+	OCS	8883	Retallack, 76
			11291	Lees, 78
			13976	Williams, 79
OCS	+	NH_3	13976	Williams, 79
OCS	+	CH_3F	13976	Williams, 79
OCS	+	CH_3OH	11291	Lees, 78
$CBrF_3$	+	CsF	14516	Borkenhagen, 79
CF_4	+	CsF	14516	Borkenhagen, 79
CHF_3	+	CsF	7794	Borkenhagen, 75
			8887	Borkenhagen, 76
			14516	Borkenhagen, 79
CHF_3	+	H_2CO	12608	Foreman, 74
CH_3Br	+	CsF	14516	Borkenhagen, 79
CH_3Cl	+	CsF	14516	Borkenhagen, 79
CH_4	+	CsF	14516	Borkenhagen, 79
CH_4	+	Na_2	13573	Bergmann, 72
			13582	Bergmann, 72
CH_4	+	Na_2^*	14773	Wainger, 79
CH_4	+	NH_3	11979	Daly, 70
SF_6	+	CsF	14516	Borkenhagen, 79
SF_6	+	NH_3	11979	Daly, 70
C_2H_6	+	CsF	7794	Borkenhagen, 75
			8887	Borkenhagen, 76
			14516	Borkenhagen, 79

REFERENCE

Ar	+	N_2	7218	Smith, 75
Ar	+	O_2	7218	Smith, 75
Ar*	+	CO_2	12960	Manzanares, 78

ROTATIONAL EXCITATION EXPERIMENTAL

REFERENCE

H^{+1}	+	H_2	8885	Schmidt, 76
He	+	Li_2^*	15014	Rowe, 79
K	+	CO	14771	Beck, 79
Li^{+1}	+	H_2O	14703	Itoh, 79
Na*	+	Molecules	14526	Hertel, 79
H_2^{+1}	+	N_2	14805	Dagdigian, 79
N_2	+	N_2O	6856	Bogey, 75
N_2	+	OCS	6856	Bogey, 75
N_2^*	+	FCN	12854	Cazzoli, 78
CO_2	+	H_2	15259	Simpson, 71
CH_3OH	+	Ar	7906	Haque, 75
CH_3OH	+	Ne	7906	Haque, 75
CH_3OH	+	D_2	7906	Haque, 75
CH_3OH	+	CH_3OH	13653	Lees, 78
– –			11202	Bauer, 72
			15165	Koski, 75

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Ar	+	H_2	9233	Blais, 76
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Ar	+	LiF	14292	Davies, 79
			14502	Tsou, 79
Ar	+	LiH	13961	Bhattacharyya, 79
Ar	+	Li_2^*	10168	Poppe, 77
Ar	+	N_2	7173	De Pristo, 75
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			7288	Pattengill, 75

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Ar	+	OH	10571	Tait, 73
			12517	Smith, 72
Ar	+	O_2	7322	Stallcop, 74
Ar	+	TlF	7347	Fisanick-Englot, 75
			9229	Dickinson, 77
			10878	Tsien, 73
			11815	Khare, 78
			12121	Van De Ree, 71
			12860	Bhattacharyya, 78
			13800	Dickinson, 78
Ar	+	CO_2	9081	Preston, 77
			10224	Suzukawa Jr., 78
Ar	+	HCN	10299	Verter, 74
Ar	+	H_2O	11160	Kolb, 72
Ar	+	OCS	10299	Verter, 74
Ar	+	CH_4	11893	Heil, 78
Ar*	+	N_2^*	11175	Cosby, 72
Cs	+	RbCl	12021	Miller, 70
F	+	D_2	12199	Rebentrost, 78
F	+	H_2	8894	De Vries, 76
			9079	De Vries, 77
			9776	Rebentrost, 77
F*	+	H_2	8124	Rebentrost, 76

F*	+	H_2	9776	Rebentrost, 77
			13969	Wyatt, 79
			14286	De Vries, 79
			14501	Wyatt, 79
H	+	CO	8161	Procaccia, 76
			8210	Green, 76
			10459	Goldflam, 77
			12602	Brumer, 74
			15015	Hoffman, 79
			15262	Chu, 75
H	+	D_2	7644	McGuire, 75
			8817	Roberts, 76
H	+	H_2	7089	Choi, 75
			7236	McCann, 75
			7280	McCann, 75
			7323	Choi, 74
			7644	McGuire, 75
			7767	Flannery, 75
			7798	McCann, 75
			7831	Kuppermann, 75
			7834	Schatz, 75
			7837	Choi, 75
			7993	Choi, 76
			8161	Procaccia, 76
			8817	Roberts, 76
			9573	Pollak, 77
			9891	Pfeffer, 77
			11057	Wolken Jr., 72
			11888	Choi, 78
			13396	Ioup, 73
			13722	Hayes, 71
			14085	Schatz, 79
			14518	Green, 79
			14521	Top, 79
			14702	Choi, 79
			14772	Green, 79
			14836	Chu, 75
			15235	Flannery, 73
H	+	OH	9617	Kosloff, 77
			14789	Shapiro, 79
H	+	NH_2	14776	Dixon, 79
H^{+1}	+	CN	7978	Jamieson, 76
			8865	De Pristo, 76
			13650	Takayanagi, 78
			13664	Jamieson, 75
			14528	De Pristo, 79
H^{+1}	+	H_2	8991	Choi, 76
			8992	McGuire, 76
			9179	McGuire, 77
			9199	Gianturco, 77
			9583	McGuire, 76
			9775	Gianturco, 77
			11509	Schinke, 78
			12189	Schinke, 78
			13338	McCann, 78
			13621	Eckelt, 74

H^{+1}	+	H_2	13983	McCann, 79
He	+	CO	7744	Green, 76
			8210	Green, 76
			8816	Launay, 76
			9224	McKenzie, 77
			9750	Chapman, 77
			9872	De Pristo, 77
			10459	Goldflam, 77
			11887	Goldflam, 78
			12190	Green, 78
			12598	Augustin, 74
			12764	Green, 78
			14048	Ramaswamy, 79
			14072	Thomas, 79
			14248	Bowman, 79
			14772	Green, 79
			14796	Monchick, 79
He	+	DCl	8835	Collins, 76
He	+	D_2	8211	Alexander, 76
			10424	Heukels, 74
			11141	Heukels, 72
He	+	D_2^{+1}	13054	Poppe, 78
He	+	DF	8835	Collins, 76
			14521	Top, 79
He	+	HCl	7609	Green, 75
			8423	Vargin, 75
			8825	Procaccia, 76
			8835	Collins, 76
			9149	Monchick, 77
			9750	Chapman, 77
			9872	De Pristo, 77
			10186	Monchick, 77
			10459	Goldflam, 77
			10571	Tait, 73
			11425	Polanyi, 78
			11887	Goldflam, 78
			12190	Green, 78
			12947	Monchick, 78
			14521	Top, 79
			14772	Green, 79
			15015	Hoffman, 79
He	+	HD	8369	Procaccia, 76
			8820	Procaccia, 76
			10135	Varshalovich, 77
			11094	Gelb, 78
			12010	Sharma, 78
			12027	Miles, 70
			14056	Liu, 79
			14945	Itikawa, 72
			14950	Itikawa, 74
			15002	Green, 74
He	+	HD^{+1}	12758	Ray, 78
He	+	HF	7224	Collins, 75
			8825	Procaccia, 76
			8835	Collins, 76

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He	+	HF	9872	De Pristo, 77
			10571	Tait, 73
			14299	Mullaney, 79
			14521	Top, 79
He	+	H_2	5617	Zarur, 73
			6713	McGuire, 75
			6718	Alexander, 75
			6933	Billing, 75
			7280	McCann, 75
			7347	Fisanick-Englot, 75
			7871	Alexander, 76
			7985	Alexander, 76
			8817	Roberts, 76
			8912	Shimoni, 76
			8989	Pattengill, 76
			9109	Shimoni, 77
			9116	Pattengill, 77
			9209	Bowman, 77
			9271	Alexander, 77
			9276	Schatz, 77
			9385	Leasure, 77
			9588	Shimoni, 76
			9589	Augustin, 77
			9628	Lin, 77
			9637	Clark, 77
			9864	Billing, 77
			9871	Eno, 77
			9891	Pfeffer, 77
			10226	Tarr, 78
			10269	McGuire, 75
			10309	Rabitz, 74
			10413	McGuire, 74
			10429	Nanbu, 74
			10652	Shimoni, 77
			11014	Eastes, 72
			11475	Schatz, 78
			11755	Eno, 78
			12240	Billing, 78
			12440	Tsien, 70
			12598	Augustin, 74
			12605	McGuire, 73
			13474	Gerber, 78
			13803	Cross Jr., 78
			13988	Lin, 79
			14242	Secrest, 79
			14292	Davies, 79
			14492	Eno, 79
			14772	Green, 79
			14779	Dove, 79
			14870	McGuire, 74
			15125	Augustin, 79
			15312	Miller, 73
He	+	H_2^{+1}	10245	Sathyamurthy, 75
			13054	Poppe, 78
He	+	HT	10424	Heukels, 74
			11135	Van Montfort, 72
			11141	Heukels, 72

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He	+	HT	12027	Miles, 70
He	+	I_2	9196	Bowman, 77
			10418	Rubinson, 74
He	+	I_2^*	8840	Bowman, 76
			9209	Bowman, 77
He	+	Li_2	12543	Poppe, 73
He	+	Li_2^*	10168	Poppe, 77
He	+	N_2	7088	Chu, 75
			7765	Dickinson, 76
			12432	Von Seggern, 70
			12440	Tsien, 70
He	+	N_2^{+1}	14549	Kelley, 79
He	+	Na_2	9115	Berbenni, 77
			12504	Bergmann, 72
			13634	Klar, 75
He	+	OH	10571	Tait, 73
He	+	TlF	6980	Saha, 75
He	+	CO_2	8912	Shimoni, 76
			9125	Goldflam, 77
			9200	Pack, 77
			11095	Parker, 78
			11475	Schatz, 78
He	+	HCN	6258	Green, 74
			7777	McGuire, 76
			10135	Varshalovich, 77
			10459	Goldflam, 77
			12190	Green, 78
He	+	H_2O	14772	Green, 79
He	+	NCN	12602	Brumer, 74
He	+	N_2H^{+1}	7666	Green, 75
			14528	De Pristo, 79
			14772	Green, 79
He	+	H_2CO	8422	Garrison, 76
			9124	Garrison, 77
			12008	Green, 78
			14535	Green, 79
			14772	Green, 79
He	+	NH_3	8142	Green, 76
			12246	Davis, 78
			14535	Green, 79
He	+	C_2HCN	12764	Green, 78
He*	+	H_2	9234	Hickman, 77
K	+	HCl	12116	Truhlar, 71
K	+	N_2	14704	Beck, 79
Kr	+	CsF	11506	Dickinson, 78
Kr	+	I_2	10418	Rubinson, 74
			12049	Cohen, 70
Kr	+	Li_2^*	10168	Poppe, 77
Kr	+	Na_2	12504	Bergmann, 72
Kr	+	CO_2	10224	Suzukawa Jr., 78

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Li	+	CO	7765	Dickinson, 76
			15367	Guerin, 74
Li	+	H_2	9570	Choi, 77
			12949	Wagner, 78
Li	+	N_2	7765	Dickinson, 76
			13514	Zaritsky, 78
			15367	Guerin, 74
Li^{+1}	+	CO	10137	Thomas, 77
			10786	Thomas, 77
			11091	Thomas, 78
			11810	Thomas, 78
			14234	Micha, 79
Li^{+1}	+	D_2	8902	Barg, 76
			11370	La Budde, 71
Li^{+1}	+	H_2	6969	Schaefer, 75
			7369	De Pristo, 75
			8114	Billing, 76
			8139	De Pristo, 76
			8161	Procaccia, 76
			8290	Dickinson, 76
			8902	Barg, 76
			9872	De Pristo, 77
			9888	Barg, 77
			10411	Kouri, 74
			10439	Brown, 74
			10577	Lester Jr., 73
			10578	La Budde, 73
			11370	La Budde, 71
			12553	Schaefer, 73
			12575	Schaefer, 74
			12609	Kouri, 74
			12669	Dubrovskii, 77
			13056	Schinke, 78
			13338	McCann, 78
			13983	McCann, 79
			14868	McGuire, 74
			14870	McGuire, 74
			15218	Kinnersly, 79
Li^{+1}	+	N_2	9119	Philipp, 77
			9181	Eckelt, 77
			10137	Thomas, 77
			10786	Thomas, 77
			12241	Poppe, 78
			13621	Eckelt, 74
			13977	Billing, 79
Na	+	N_2	7200	Bottcher, 75
			11472	Amaee, 78
Na	+	Na_2	9108	Gelb, 77
Na*	+	N_2	11472	Amaee, 78
Ne	+	CO	13599	Saha, 73
Ne	+	CsF	11506	Dickinson, 78
Ne	+	HCl	13599	Saha, 73
Ne	+	HD	9205	Buck, 77

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Ne	+	I_2	10418	Rubinson, 74
Ne	+	Li_2^*	10168	Poppe, 77
Ne	+	N_2	7678	Bosanac, 75
			7765	Dickinson, 76
			9229	Dickinson, 77
			12049	Cohen, 70
			13628	Dickinson, 74
Ne	+	Na_2	12504	Bergmann, 72
Ne	+	CO_2	10224	Suzukawa Jr., 78
Ne	+	HCN	10135	Varshalovich, 77
O	+	HCl	10571	Tait, 73
O	+	HF	10571	Tait, 73
O	+	OH	10571	Tait, 73
O	+	H_2O	9197	Kolb, 77
O	+	NH_3	9197	Kolb, 77
Rb*	+	CD_4	12237	Lawley, 78
Rb*	+	CH_4	12237	Lawley, 78
Xe	+	CsF	11506	Dickinson, 78
Xe	+	HCl	10299	Verter, 74
Xe	+	HI	12049	Cohen, 70
Xe	+	Li_2^*	10168	Poppe, 77
Xe	+	Na_2	12504	Bergmann, 72
			14106	Ramaswamy, 79
Xe	+	HCN	10299	Verter, 74
Xe	+	OCS	10299	Verter, 74
Zn*	+	NO	14277	Breckenridge, 79
CO	+	CO	8423	Vargin, 75
CO	+	H_2	6217	Nelson, 73
			11329	Sharma, 71
CsCl	+	NO	13227	Rogovin, 74
DCl	+	DCl	12448	Shin, 70
DCl	+	LiH	14519	Dagdigian, 79
			14609	Alexander, 79
D_2	+	HD	11130	Van De Ree, 72
D_2	+	H_2	11406	Brown, 78
D_2	+	HT	11130	Van De Ree, 72
D_2	+	Na_2	12504	Bergmann, 72
D_2	+	NH_3	10409	Prakash, 74
DF	+	CO_2	5396	Dillon, 73
HBr	+	HCl	14073	Turfa, 79
HCl	+	HCl	8423	Vargin, 75
			9576	Bhattacharyya, 77
			10299	Verter, 74
			11600	Bhattacharyya, 78
			12448	Shin, 70
			14073	Turfa, 79
			14544	Polanyi, 79
HCl	+	LiH	14519	Dagdigian, 79

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HCl	+	LiH	14609	Alexander, 79
HCl	+	CO_2	5396	Dillon, 73
HCl	+	OCS	10299	Verter, 74
HD	+	HD	14513	Gelb, 79
HD	+	H_2	14513	Gelb, 79
HD	+	NH_3	10409	Prakash, 74
HD^{+1}	+	HD^{+1}	9640	Bhattacharyya, 77
HF	+	HCl	14073	Turfa, 79
HF	+	HF	9107	De Pristo, 77
			10136	Wilkins, 77
			12971	Alper, 78
			14523	Alexander, 79
HF	+	CO_2	5396	Dillon, 73
H_2	+	F	9776	Rebentrost, 77
H_2	+	He	7324	Alexander, 74
H_2	+	CO	8210	Green, 76
			10459	Goldflam, 77
H_2	+	CS	9750	Chapman, 77
			9872	De Pristo, 77
			10459	Goldflam, 77
			12190	Green, 78
			12764	Green, 78
			14772	Green, 79
H_2	+	D_2	11406	Brown, 78
H_2	+	HCl	9177	Green, 77
			11592	Heil, 78
H_2	+	HD	8820	Procaccia, 76
			10278	Chu, 75
			14513	Gelb, 79
H_2	+	H_2	6968	Green, 75
			8817	Roberts, 76
			8828	Heil, 76
			9210	Ramaswamy, 77
			10407	Zarur, 74
			11421	Ramaswamy, 78
			11592	Heil, 78
			11658	Green, 78
			12441	Crawford, 70
			14077	Gelb, 79
H_2	+	N_2	12981	Bergeron, 78
H_2	+	Na_2	12504	Bergmann, 72
H_2	+	CO_2	9212	Guha, 77
H_2	+	HCN	8901	Ray, 76
H_2	+	OCS	9750	Chapman, 77
			10459	Goldflam, 77
			12190	Green, 78
			12764	Green, 78
			14772	Green, 79
H_2	+	H_2CO	10297	Augustin, 74
H_2	+	NH_3	10409	Prakash, 74

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HI	+	HCl	14073	Turfa, 79
I_2	+	I_2	12765	Jeyes, 78
I_2^*	+	I_2	11290	Kato, 78
LiH	+	HCl	14609	Alexander, 79
N_2	+	N_2	7629	Itikawa, 75
N_2	+	Na_2	12504	Bergmann, 72
N_2	+	NH_3	10409	Prakash, 74
O_2	+	NH_3	10409	Prakash, 74
CO_2	+	H_2	9097	Tsuchiya, 76
			12487	Kolker, 71
CO_2	+	CH_4	12237	Lawley, 78
DCN	+	DCN	11152	Prakash, 72
HCN	+	HCN	10299	Verter, 74
			11152	Prakash, 72
			11947	Rabitz, 70
ICN	+	ICN	11947	Rabitz, 70
OCS	+	Ar	10243	Liu, 75
OCS	+	He	10243	Liu, 75
OCS	+	H_2	10243	Liu, 75
OCS	+	N_2	10243	Liu, 75
OCS	+	CO_2	10243	Liu, 75
OCS	+	OCS	10265	Mehrotra, 75
			10299	Verter, 74
			13654	Johri, 79
BCl_3	+	DCl	10967	Poulsen, 73
BCl_3	+	D_2	10967	Poulsen, 73
BCl_3	+	HCl	10967	Poulsen, 73
BCl_3	+	HD	10967	Poulsen, 73
BCl_3	+	H_2	10967	Poulsen, 73
C_2D_2	+	C_2D_2	11186	Hung, 72
C_2H_2	+	C_2H_2	11186	Hung, 72
C_2N_2	+	C_2N_2	11186	Hung, 72
HDCO	+	HDCO	11152	Prakash, 72
H_2CO	+	H_2CO	11152	Prakash, 72
NH_3	+	NH_3	10299	Verter, 74
			10409	Prakash, 74
C_2H_2O	+	C_2H_2O	11152	Prakash, 72
CH_4	+	Na_2	12504	Bergmann, 72

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Ar	+	CO_2	14782	Rotzoll, 79
Ar*	+	D_2	9227	Huo, 77
Ar*	+	HD	9227	Huo, 77
Ar*	+	H_2	9227	Huo, 77
H	+	CH	15041	Dixon, 79
H	+	H_2	14086	Choi, 79
H	+	OD	15041	Dixon, 79

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H	+	OH	15041	Dixon, 79
H^{+1}	+	CH	15041	Dixon, 79
H^{+1}	+	H_2	13800	Dickinson, 78
H^{+1}	+	OD	15041	Dixon, 79
H^{+1}	+	OH	15041	Dixon, 79
He	+	CH	15041	Dixon, 79
He	+	H_2	11522	Eno, 78
			12476	Eastes, 71
			14528	De Pristo, 79
			14862	Larson, 74
He	+	OD	15041	Dixon, 79
He	+	OH	15041	Dixon, 79
Li^{+1}	+	CO	7723	Philipp, 76
Li^{+1}	+	N_2	14234	Micha, 79
H_2	+	CH	15041	Dixon, 79
H_2	+	OD	15041	Dixon, 79
H_2	+	OH	15041	Dixon, 79
H_3^{+1}	+	CH	15041	Dixon, 79
H_3^{+1}	+	OD	15041	Dixon, 79
H_3^{+1}	+	OH	15041	Dixon, 79
-	-		6963	Curtiss, 75
			7044	Smith, 75
			7060	Choi, 75
			7362	Hunter, 75
			7757	Ficocelli Varracc, 75
			8311	Vitlina, 74
			9087	Bernstein, 76
			9218	Alexander, 77
			9236	Alexander, 77
			9277	Pack, 77
			9562	Kouri, 77
			9600	McCurdy, 77
			9761	De Vries, 77
			9915	Schrepp, 77
			9916	Chang, 77
			9990	Brandt, 73
			10082	Launay, 77
			10153	Curtiss, 77
			10241	Olmsted, 77
			10329	Stallcop, 75
			10330	Secrest, 75
			10331	Green, 75
			10335	Biolsi, 74
			10435	Pack, 74
			10436	Russell, 74
			10581	Russell, 73
			10588	Eastes, 73
			10903	St. Pierre, 73
			10975	Hunter, 73
			10976	Hunter, 73
			10997	Neilsen, 73
			10999	O'Brien, 73
			11004	Dugan Jr., 73

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-	-		11080	Curtiss, 72
			11120	Curtiss, 77
			11198	La Budde, 72
			11201	Rabitz, 72
			11380	Cross Jr., 71
			11393	Pattengill, 71
			11408	Sigmund, 78
			11917	Lin, 78
			11932	Levine, 70
			11946	Rabitz, 70
			11959	Kelley, 70
			12026	Curtiss, 70
			12037	Levine, 70
			12063	Curtiss, 70
			12065	Roberts, 70
			12078	Roberts, 70
			12088	Curtiss, 71
			12089	Hayes, 71
			12090	Levine, 71
			12110	Pattengill, 71
			12150	Miller, 71
			12433	Tsien, 70
			12449	Balint-Kurti, 70
			12470	Tsien, 71
			12511	Pack, 72
			12569	Pattengill, 73
			12852	Lebed, 77
			13060	Stechel, 78
			13418	Pollak, 74
			13435	Englot, 754
			13604	Klar, 73
			13715	Rotenberg, 71
			13727	Russek, 71
			14065	Pritchard, 79
			14235	Itikawa, 78
			14256	Bowman, 79
			14300	Tarr, 78
			14505	Shalom, 79
			14507	Wood, 79
			14705	Shimamura, 79
			14775	Dixon, 79
			14873	Stallcop, 74
			14874	Green, 75
			14875	Walker, 75
			14882	Takayanagi, 73
			15049	Goldflam, 79
			15073	Bhattacharyya, 79
			15083	Lester Jr., 75
			15112	Augustin, 78
			15213	Alexander, 79
			15355	Borman, 75

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H^{+1}	+	H_2	14332	Teloy, 77
-	-		10553	Lemont, 77

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			10950	Gait, 76
			15010	Bailey, 78
			15156	Doering, 73
			15164	Amme, 75
			15450	Moore, 73

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Ar	+	BaCl	9899	Edelstein, 77
Ar	+	CO^{+1}	13734	Petty, 72
Ar	+	CsCl	7195	Armstrong, 75
Ar	+	CsI	7195	Armstrong, 75
			11148	Loesch, 72
Ar	+	Li_2^*	6150	Ennen, 74
Ar	+	N_2	6339	Bochkova, 74
			9812	Krenos, 77
			13263	Bochkova, 71
Ar	+	N_2^{+1}	10822	Bearman, 77
			14957	Fayeton, 71
Ar	+	NO	9616	Glanzer, 77
Ar	+	O_2^{+1}	12079	Cosby, 70
Ar	+	H_2O	7908	Dunn, 75
Ar	+	SO_2	6927	Earl, 75
Ar*	+	N_2	10217	Sadeghi, 77
			10661	Krenos, 77
			11580	Touzeau, 78
Ar^{+1}	+	CO_2	9384	Sim, 76
Br*	+	D_2	14508	Grimley, 79
Br*	+	HBr	5969	Leone, 74
Br*	+	HCl	5969	Leone, 74
			11312	Reisler, 78
Br*	+	HD	14508	Grimley, 79
Br*	+	HF	7870	Wodarczyk, 76
Br*	+	H_2	14508	Grimley, 79
Br*	+	HI	7337	Bergmann, 75
Br*	+	CO_2	7697	Petersen, 75
			11312	Reisler, 78
			12950	Reisler, 78
Br*	+	HCN	8418	Hariri, 76
Br*	+	H_2O	11292	Hariri, 78
Br*	+	N_2O	7697	Petersen, 75
D^{+1}	+	H_2	13440	Gentry, 75
			13736	Herrero, 72
H^{+1}	+	CO	9867	Krutein, 77
			10790	Krutein, 77
			13415	Moore Jr., 74
			14797	Krutein, 79
H^{+1}	+	D_2	13394	Udseth, 73
H^{+1}	+	HD	13394	Udseth, 73
H^{+1}	+	H_2	8885	Schmidt, 76

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H^{+1}	+	H_2	9625	Schinke, 77
			10792	Hermann, 77
			11104	Hermann, 78
			12123	Udseth, 71
			12262	Schmidt, 78
			13394	Udseth, 73
			13440	Gentry, 75
			13736	Herrero, 72
			14504	Krutein, 79
H^{+1}	+	N_2	13415	Moore Jr., 74
			14797	Krutein, 79
H^{+1}	+	NO	14797	Krutein, 79
H^{+1}	+	CO_2	9382	Krutein, 77
			10790	Krutein, 77
H^{+1}	+	CH_4	7799	Udseth, 75
			10790	Krutein, 77
He	+	HD	10984	Wartell, 73
He	+	H_2	12079	Cosby, 70
He	+	Li_2^*	6150	Ennen, 74
He	+	N_2^{+1}	13408	Bregman-Reisler, 74
			14957	Fayeton, 71
He	+	NO^{+1}	12077	Cheng, 70
He	+	O_2^{+1}	12077	Cheng, 70
He	+	SO_2	6927	Earl, 75
He^{+1}	+	N_2	6930	Govers, 75
He^{+1}	+	CO_2	9384	Sim, 76
Hg	+	N_2	11586	Degani, 78
Hg*	+	CO	5791	Fushiki, 73
			14498	Horiguchi, 79
			15297	Callear, 71
Hg*	+	HF	14817	Heydtmann, 71
Hg*	+	N_2	8308	Horiguchi, 75
Hg*	+	NO	14498	Horiguchi, 79
I*	+	Cl	11320	Grimley, 78
I*	+	CO	7156	Lin, 75
I*	+	HBr	11320	Grimley, 78
			12931	Houston, 77
I*	+	HCl	12931	Houston, 77
I*	+	HF	9275	Coombe, 77
I*	+	NO	11320	Grimley, 78
K	+	CO	10787	Puhl, 77
K	+	D_2	12136	Dittner, 71
K	+	H_2	12136	Dittner, 71
K	+	N_2	10787	Puhl, 77
K^{+1}	+	D_2	12136	Dittner, 71
K^{+1}	+	H_2	12136	Dittner, 71
Kr	+	Li_2^*	6150	Ennen, 74
Kr	+	SO_2	6927	Earl, 75

Kr^{+1}	+	CO_2	9384	Sim, 76
Li^{+1}	+	CO	10789	Kobayashi, 77
			14069	Kobayashi, 78
Li^{+1}	+	D_2	10789	Kobayashi, 77
			13999	Kobayashi, 79
Li^{+1}	+	H_2	10789	Kobayashi, 77
			12438	Held, 70
			12539	David, 73
			13999	Kobayashi, 79
Li^{+1}	+	N_2	10789	Kobayashi, 77
			13999	Kobayashi, 79
Li^{+1}	+	O_2	10789	Kobayashi, 77
			13999	Kobayashi, 79
Li^{+1}	+	CO_2	9075	Eastes, 77
			10789	Kobayashi, 77
			14069	Kobayashi, 78
Li^{+1}	+	N_2O	9075	Eastes, 77
			14069	Kobayashi, 78
Li^{+1}	+	CH_4	13970	Eastes, 79
N^{+1}	+	CO	13415	Moore Jr., 74
Na	+	D_2	12136	Dittner, 71
Na	+	H_2	12136	Dittner, 71
Na*	+	CO	8438	Hsu, 76
			9176	Hertel, 77
Na*	+	D_2	9176	Hertel, 77
Na*	+	H_2	9176	Hertel, 77
Na*	+	N_2	8160	Hertel, 76
			9112	Hertel, 77
			9176	Hertel, 77
Na*	+	NO	9586	Silver, 77
Na*	+	O_2	9176	Hertel, 77
Na*	+	CO_2	9176	Hertel, 77
Na*	+	N_2O	9176	Hertel, 77
Na*	+	C_2H_4	9176	Hertel, 77
Na^{+1}	+	D_2	10419	Dimpfl, 74
			12136	Dittner, 71
Na^{+1}	+	H_2	12136	Dittner, 71
Ne	+	Li_2^*	6150	Ennen, 74
Ne	+	N_2^{+1}	13408	Bregman-Reisler, 74
Ne	+	SO_2	6927	Earl, 75
Ne^{+1}	+	CO_2	9384	Sim, 76
O	+	CO	5962	Slanger, 74
			6389	Lin, 74
O	+	N_2	5962	Slanger, 74
O	+	H_2O	7908	Dunn, 75
O*	+	CO	7156	Lin, 75
			8122	Shortridge, 76
O^{+1}	+	O_2	12079	Cosby, 70

Tl*	+	N_2	14068	Wade, 78
Xe	+	CsI	7195	Armstrong, 75
Xe	+	Li_2^*	6150	Ennen, 74
Xe	+	N_2^{+1}	14957	Fayeton, 71
Xe	+	SO_2	6927	Earl, 75
Xe	+	Cl_4	9403	Dixon, 77
Xe*	+	N_2	6398	Nguyen, 74
Zn	+	NO	8832	Breckenridge, 76
Zn*	+	NO	14277	Breckenridge, 79
Br_2	+	Cl_4	9403	Dixon, 77
CO	+	CO	5509	Stephenson, 73
			5536	Sackett, 73
			5800	Smith, 73
			5929	Powell, 73
			6124	Stephenson, 74
			6324	Fushiki, 74
			6756	Liu, 75
			6764	Hancock, 74
			6777	Nachshon, 75
			7336	Gower, 75
			7645	Brechignac, 75
			9816	Thomas, 77
			10362	Brechignac, 77
			10920	Young, 73
			11013	Seery, 72
			11372	Wittig, 71
			12057	Yardley, 70
			12524	Wittig, 72
			13149	Brechignac, 78
			15088	Hanson, 71
CO	+	D_2	8484	Simpson, 76
			9764	Doyennette, 77
CO	+	HCl	7194	Seery, 75
CO	+	N_2	8093	Mastrocinque, 76
			9593	Nasser, 77
CO	+	NO	6335	Stephenson, 74
CO	+	O_2	6243	Miller, 74
CO	+	CO_2	6712	Miller, 74
			7279	Starr, 75
CO	+	CS_2	6764	Hancock, 74
			6765	Richman, 74
CO	+	N_2O	6664	Starr, 75
			6764	Hancock, 74
CO	+	OCS	6764	Hancock, 74
CO	+	O_3	8898	Hui, 76
CO	+	SO_2	6764	Hancock, 74
CO	+	C_2N_2	6764	Hancock, 74
CO	+	C_6H_6	14607	Atkinson, 79
DBr	+	DBr	13339	Horwitz, 78
DCl	+	DCl	13339	Horwitz, 78

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D_2	+	CO	7334	Matsui, 75
D_2	+	D_2	9764	Doyennette, 77
D_2	+	DF	10395	Bott, 74
D_2	+	HCl	12132	Chen, 71
DF	+	DF	5968	Ernst, 73
			10490	Bott, 73
			12571	Bott, 73
DF	+	HBr	10395	Bott, 74
DF	+	HCl	10395	Bott, 74
DF	+	HF	6286	Lucht, 74
DF	+	N_2	10395	Bott, 74
DF	+	NO	10395	Bott, 74
DF	+	O_2	10395	Bott, 74
DF	+	CO_2	10490	Bott, 73
			15336	Vasilev, 72
DF	+	HCN	9232	McGarvey Jr., 77
DF*	+	CO_2	14819	Basov, 71
HBr	+	CO	11375	Chen, 71
HBr	+	DBr	11041	Chen, 72
HBr	+	D_2	11375	Chen, 71
HBr	+	HBr	5419	Burak, 72
			10560	Noter, 73
			12537	Hopkins, 72
			13339	Horwitz, 78
HBr	+	HCl	11374	Chen, 71
			11375	Chen, 71
HBr	+	HI	11374	Chen, 71
HBr	+	N_2	11375	Chen, 71
HBr	+	O_2	11375	Chen, 71
HCl	+	CO	7194	Seery, 75
			12132	Chen, 71
HCl	+	DCl	12132	Chen, 71
HCl	+	D_2	5926	Hopkins, 73
HCl	+	HBr	12132	Chen, 71
HCl	+	HCl	5409	Burak, 72
			5539	Leone, 73
			10560	Noter, 73
			11170	Hopkins, 72
			13339	Horwitz, 78
			14499	Horwitz, 79
HCl	+	HD	11156	Hopkins, 72
HCl	+	HI	12132	Chen, 71
HCl	+	N_2	12132	Chen, 71
HCl	+	O_2	9816	Thomas, 77
HCl	+	CO_2	8126	Slobodskaya, 75
			13336	Doyennette, 78
HCl	+	N_2O	13336	Doyennette, 78
HCl	+	CH_4	12132	Chen, 71

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HF	+	CO	5564	Bott, 73
HF	+	D_2	5564	Bott, 73
HF	+	DF	5564	Bott, 73
			5642	Ahl, 73
			6286	Lucht, 74
HF	+	HBr	5564	Bott, 73
			5642	Ahl, 73
HF	+	HCl	5564	Bott, 73
			5642	Ahl, 73
HF	+	HF	6017	Osgood Jr., 74
			9417	Schmailzl, 77
			10390	Chen, 74
			11129	Bott, 72
			15146	Solomon, 71
HF	+	H_2	5564	Bott, 73
HF	+	HI	5642	Ahl, 73
HF	+	N_2	5564	Bott, 73
			5674	Sentman, 73
HF	+	NO	5564	Bott, 73
HF	+	O_2	5564	Bott, 73
HF	+	CO_2	5564	Bott, 73
			8486	Nikitin, 76
			15336	Vasilev, 72
HF	+	HCN	9232	McGarvey Jr., 77
H_2	+	CO	7334	Matsui, 75
			9274	Miller, 77
H_2	+	DBr	9274	Miller, 77
H_2	+	DCl	9274	Miller, 77
H_2	+	D_2	8439	Pirkle, 76
			8859	Bott, 76
H_2	+	HBr	9274	Miller, 77
H_2	+	HCl	8439	Pirkle, 76
			8859	Bott, 76
			9274	Miller, 77
			14813	Rosen, 79
H_2	+	HF	10390	Chen, 74
H_2	+	H_2	5885	Jennings, 73
H_2	+	N_2	8859	Bott, 76
H_2	+	NO	9274	Miller, 77
H_2	+	CO_2	8859	Bott, 76
			9274	Miller, 77
H_2	+	HCN	9232	McGarvey Jr., 77
H_2	+	N_2O	9274	Miller, 77
H_2^{+1}	+	CO	13415	Moore Jr., 74
HI	+	HF	5642	Ahl, 73
HI	+	Cl_4	9403	Dixon, 77
N_2	+	CO	5862	Zittel, 72
			6124	Stephenson, 74
			11039	Von Rosenberg, 72

N_2	+	CO	11183	Young, 72
N_2	+	N_2	6767	Dreyer, 74
			8826	Ung, 76
			10563	Hays, 73
N_2	+	CO_2	7908	Dunn, 75
			10993	Bulthuis, 73
N_2	+	H_2O	7908	Dunn, 75
N_2	+	NH_3	7908	Dunn, 75
N_2^*	+	CO_2	5394	McNeal, 72
N_2^*	+	N_2O	5394	McNeal, 72
N_2^*	+	OCS	12578	Bogey, 74
NO	+	CO	15298	Billingsley, 71
NO	+	N_2	15298	Billingsley, 71
NO	+	NO	5671	Stephenson, 73
			9616	Glanzer, 77
			9816	Thomas, 77
			11247	Patel, 78
			15022	Horiguchi, 79
NO	+	O_2	9816	Thomas, 77
O_2	+	CO	9421	Thomas, 77
O_2	+	DCl	9421	Thomas, 77
O_2	+	HBr	8485	Braithwaite, 76
O_2	+	HCl	9421	Thomas, 77
O_2	+	NO	5880	Ogryzlo, 73
			9421	Thomas, 77
O_2	+	O_2	10579	Parker, 73
O_2	+	CO_2	9421	Thomas, 77
O_2	+	D_2O	9421	Thomas, 77
O_2	+	H_2O	9421	Thomas, 77
			15377	Bass, 74
O_2	+	N_2O	9421	Thomas, 77
O_2	+	O_3	11359	Baiamonte, 71
O_2	+	C_2H_2	9421	Thomas, 77
O_2	+	NH_3	9421	Thomas, 77
O_2^*	+	CO_2	5534	Bass, 73
TF	+	CO_2	8486	Nikitin, 76
CO_2	+	CO	7162	Inoue, 75
			8896	Vargin, 76
			11013	Seery, 72
			11024	Stephenson, 72
CO_2	+	DBr	5863	Stephenson, 72
CO_2	+	DCl	5863	Stephenson, 72
CO_2	+	DI	5863	Stephenson, 72
CO_2	+	HBr	5863	Stephenson, 72
			14287	Seoudi, 79
CO_2	+	HCl	5863	Stephenson, 72
			13336	Doyennette, 78
CO_2	+	HI	5863	Stephenson, 72

CO_2	+	N_2	7162	Inoue, 75
			7171	Gueguen, 75
			8896	Vargin, 76
CO_2	+	N_2	11015	Chang, 72
			11024	Stephenson, 72
CO_2	+	O_2	9816	Thomas, 77
CO_2	+	CO_2	6784	Doyennette, 75
			7278	Slobodskaya, 75
			7279	Starr, 75
			10268	Murray, 75
			10993	Bulthuis, 73
			11013	Seery, 72
			11024	Stephenson, 72
			11366	Seeber, 71
			11963	Kamimoto, 70
			14920	Burak, 73
CO_2	+	H_2Se	11055	Stephenson, 72
CO_2	+	N_2O	11024	Stephenson, 72
CO_2	+	NOF	5578	Cool, 73
CO_2	+	O_3	5578	Cool, 73
			5751	Von Rosenberg Jr, 73
CO_2	+	C_2D_2	11055	Stephenson, 72
CO_2	+	COF_2	5578	Cool, 73
CO_2	+	C_2H_6	6391	Veerabhadra Rao, 7
CO_2^*	+	CO	12094	Rosser Jr., 71
HCN	+	CO_2	13925	Coulter, 78
HCN	+	HCN	9232	McGarvey Jr., 77
H_2O	+	H_2O	11292	Hariri, 78
H_2O	+	NH_3	11582	Herlemont, 78
N_2O	+	CO	5858	Margottin-Maclou, 72
			9102	Suitor, 77
N_2O	+	HBr	14287	Seoudi, 79
N_2O	+	HCl	13336	Doyennette, 78
N_2O	+	N_2	7171	Gueguen, 75
			12928	Picard-Berselli 78
N_2O	+	O_2	9816	Thomas, 77
N_2O	+	N_2O	5931	Gueguen, 73
			6784	Doyennette, 75
OCS	+	N_2	8898	Hui, 76
OCS	+	OCS	6764	Hancock, 74
O_3	+	OCS	8898	Hui, 76
O_3	+	SiF_4	7189	Kaldor, 75
O_3^*	+	SiF_4	6336	Braun, 74
SO_2	+	Ar	6569	Siebert, 75
SO_2	+	He	6569	Siebert, 75
SO_2	+	Kr	6569	Siebert, 75
SO_2	+	Ne	6569	Siebert, 75
SO_2	+	Xe	6569	Siebert, 75

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SO_2	+	SO_2	6569	Siebert,	75
			6927	Earl,	75
			11345	Shields,	71
BCl_3	+	HCl	6531	Frankel,	74
CH_3Br	+	CH_3Br	8113	Earl,	76
CH_3Cl	+	CH_3Cl	10394	Grabiner,	74
CH_3F	+	NO_2	7715	Lee,	75
CH_3F	+	CH_3F	5386	Karny,	72
			9408	Preses,	77
			9592	McNair,	77
			10569	Grabiner,	73
			12877	Sheorey,	78
			12933	Chesnokov,	77
CH_3F	+	CH_4	12234	Chesnokov,	77
C_2H_4	+	C_2H_4	14071	Hager,	79
SF_6	+	SF_6	10919	Knudtson,	73
			11986	Bates Jr.,	70
			11987	Burak,	70
C_3H_6	+	C_3H_6	15212	Fujimoto,	79
$C_6D_6^*$	+	C_6H_6	9154	Parmenter,	77

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Ar	+	Li_2	13921	Jeyes,	78
Ar*	+	N_2	8444	Schweid,	76
			8907	Krenos,	76
			14262	Cutshall,	79
Br*	+	CO	6389	Lin,	74
Br*	+	NO	12931	Houston,	77
Br*	+	HCN	7697	Petersen,	75
Cl^-	+	H_2	14742	Cheung,	79
D^{+1}	+	CO_2	14706	Bischof,	79
H^{+1}	+	CO_2	14706	Bischof,	79
H^{+1}	+	CD_4	7345	Gentry,	75
H^{+1}	+	CH_4	7345	Gentry,	75
Hg*	+	OH	7699	Vikis,	75
I*	+	CO	6389	Lin,	74
K	+	Br_2	14712	Los,	79
K^{+1}	+	D_2	14990	Van Dop,	71
K^{+1}	+	H_2	14990	Van Dop,	71
Li^{+1}	+	CO	8262	Bottner,	76
Li^{+1}	+	N_2	8262	Bottner,	76
Na*	+	CO	14750	Hsu,	76
Na*	+	Molecules	14526	Hertel,	79
CO	+	CO	14965	Charneau,	75
CO	+	N_2	14965	Charneau,	75
ICl	+	CO	11910	Hsu,	78
I_2	+	CO	11910	Hsu,	78
N_2^*	+	CO	5401	Golde,	72

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O_2	+	N_2	14646	Jamshidi,	78
O_2^*	+	HCl	9178	Madronich,	77
O_2^*	+	HF	9178	Madronich,	77
O_2^*	+	CO_2	6064	Ogryzlo,	74
O_2^*	+	H_2O	6064	Ogryzlo,	74
NO_2	+	CO	11910	Hsu,	78
- -			15006	Callear,	78
			15165	Koski,	75

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- -			9189	Toennies,	76
			14293	Dickinson,	79
			15164	Amme,	75

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Ar	+	Br_2	14785	Bowman,	79
Ar	+	HCl	10571	Tait,	73
			11146	Kiefer,	72
Ar	+	HF	10571	Tait,	73
Ar	+	H_2	9233	Blais,	76
			10923	Wagner,	73
			11898	Blais,	78
			12556	Young,	73
			15122	Truhlar,	79
Ar	+	I_2	10418	Rubinson,	74
Ar	+	Li_2^*	8169	Procaccia,	75
Ar	+	N_2	12444	Hunding,	70
			15305	Shin,	73
Ar	+	OH	10571	Tait,	73
Ar	+	O_2	12444	Hunding,	70
			12453	Shin,	70
			15301	Shin,	71
Ar	+	CO_2	10224	Suzukawa Jr.,	78
Ar	+	$COCl_2$	15140	Yonezawa,	74
Ar	+	COF_2	15140	Yonezawa,	74
Ar	+	H_2CO	15140	Yonezawa,	74
Ar*	+	N_2^*	11175	Cosby,	72
Ar^{+1}	+	O_2	12426	Shin,	70
Br	+	HBr	10311	White,	74
Br	+	H_2	14876	Zimmerman,	75
Cl	+	Cl_2	8169	Procaccia,	75
			10430	Thompson,	74
Cl	+	H_2	11042	Thompson,	72
			14876	Zimmerman,	75
D	+	DCl	12107	Locker,	71
D	+	D_2	9411	Smith,	77
D	+	HBr	14074	Jolicard,	79

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D	+	HD	12107	Locker, 71
D	+	H_2	10166	Gianturco, 77
			12439	Gianturco, 70
D	+	ND	11958	Locker, 70
D	+	NH	11958	Locker, 70
D	+	N_2	12439	Gianturco, 70
F	+	H_2	14876	Zimmerman, 75
H	+	Br_2	6931	McKenzie, 75
H	+	Cl_2	11354	Rankin, 71
H	+	D_2	12107	Locker, 71
H	+	HBr	10311	White, 74
H	+	HCl	11042	Thompson, 72
H	+	HD	10398	Clarke, 74
H	+	H_2	6754	Schinke, 75
			7832	Schatz, 75
			9411	Smith, 77
			10166	Gianturco, 77
			10891	Bowman, 73
			11031	Truhlar, 72
			11964	Wu, 70
			13396	Ioup, 73
			15446	Clark, 73
H	+	NH	11958	Locker, 70
H^-	+	O_2	12481	Levine, 71
H^{+1}	+	D_2	13433	Giese, 74
H^{+1}	+	HD	13433	Giese, 74
H^{+1}	+	HD^{+1}	14937	Watanabe, 70
H^{+1}	+	H_2	5060	Ritchie, 72
			8260	Collins, 76
			8990	Skodje, 76
			9273	Kruger, 77
			9625	Schinke, 77
			9861	Schinke, 77
			10962	Truhlar, 73
			11092	Top, 77
			12189	Schinke, 78
			12584	Collins, 74
			13360	Ritchie, 72
			13433	Giese, 74
			13443	Azziz, 75
			13621	Eckelt, 74
He	+	Br_2	8852	Duff, 76
He	+	CO	9224	McKenzie, 77
			9634	Gianturco, 77
			10212	Ewing, 77
			12097	Thommarson, 71
He	+	D_2	11162	Bergeron, 72
He	+	D_2^{+1}	13054	Poppe, 78
He	+	HBr	8852	Duff, 76
			14490	Cross Jr., 79
			15446	Clark, 73
He	+	HCl	10571	Tait, 73
He	+	HF	10571	Tait, 73
He	+	H_2	6754	Schinke, 75
			6929	Duff, 75
			6931	McKenzie, 75
			6933	Billing, 75
			7626	Duff, 75
			7769	Clark, 75
			8805	Gianturco, 76
			9070	Truhlar, 76
			9116	Pattengill, 77
			9209	Bowman, 77
			9217	Augustin, 77
			9224	McKenzie, 77
			9385	Leasure, 77
			9569	Truhlar, 75
			9589	Augustin, 77
			9637	Clark, 77
			9907	Schatz, 77
			10101	Child, 77
			10226	Tarr, 78
			10269	McGuire, 75
			10309	Rabitz, 74
			10423	Alexander, 74
			11014	Eastes, 72
			11162	Bergeron, 72
			11185	Doll, 72
			11334	Morse, 71
			11365	Wartell, 71
			11755	Eno, 78
			11757	Schatz, 78
			11973	Lin, 70
			11985	Miller, 70
			12429	Wartell, 70
			12434	Micha, 70
			12444	Hunding, 70
			12506	Micha, 72
			13612	Drake, 74
			13656	Drake, 75
			13968	Lin, 79
			13988	Lin, 79
			14242	Secrest, 79
			14490	Cross Jr., 79
			14492	Eno, 79
			14608	Nesbet, 79
			14779	Dove, 79
			15086	Miller, 71
			15125	Augustin, 79
			15312	Miller, 73
			15446	Clark, 73
He	+	H_2^{+1}	8285	Chapman Jr., 76
			9904	Cohen, 77
			10245	Sathyamurthy, 75
			10281	Chapman Jr., 75
			13054	Poppe, 78
He	+	I_2	9215	Nanbu, 77

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He	+	I_2	10418	Rubinson,	74
			10923	Wagner,	73
He	+	N_2	9224	McKenzie,	77
He	+	N_2^{+1}	14549	Kelley,	79
He	+	OH	10571	Tait,	73
He	+	O_2	10226	Tarr,	78
			10923	Wagner,	73
			11903	Gordon,	78
He	+	O_2^{+1}	12495	Eckelt,	71
			12520	Eckelt,	72
He	+	CO_2	11095	Parker,	78
He	+	NH_3	11037	Fabris,	72
Hf*	+	CO_2	13298	Gruzdev,	74
			15188	Mach,	72
Hg*	+	CO	11174	Gonzalez,	72
			15368	Wilson,	74
Hg*	+	HF	15368	Wilson,	74
I	+	H_2	11042	Thompson,	72
I	+	I_2	8169	Procaccia,	75
			10430	Thompson,	74
K*	+	N_2	12573	Andreev,	73
K^{+1}	+	HD^{+1}	14937	Watanabe,	70
Kr	+	I_2	10418	Rubinson,	74
Kr	+	CO_2	10224	Suzukawa Jr.,	78
			11238	Schatz,	78
Li	+	H_2	9570	Choi,	77
			13511	Gianturco,	78
Li^{+1}	+	CO	7723	Philipp,	76
			11810	Thomas,	78
			14234	Micha,	79
Li^{+1}	+	HD^{+1}	14937	Watanabe,	70
Li^{+1}	+	H_2	6969	Schaefer,	75
			7768	Sutherley,	75
			8114	Billing,	76
			10263	Gentry,	75
			10411	Kouri,	74
			10439	Brown,	74
			11153	White,	72
			12508	White,	72
			12553	Schaefer,	73
			12575	Schaefer,	74
			13056	Schinke,	78
			14051	Eastes,	79
			14866	Gianturco,	74
Li^{+1}	+	N_2	8201	Collins,	76
			9119	Philipp,	77
			12241	Poppe,	78
			12621	Korsch,	75
			13621	Eckelt,	74
			13977	Billing,	79
			14234	Micha,	79

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N	+	NO	11958	Locker,	70
Na	+	N_2	8857	Barker,	76
Na	+	Na_2	9108	Gelb,	77
Na*	+	H_2	14739	McGuire,	79
Na*	+	N_2	12573	Andreev,	73
Na^{+1}	+	HD^{+1}	14937	Watanabe,	70
Ne	+	H_2^{+1}	9904	Cohen,	77
Ne	+	I_2	10418	Rubinson,	74
Ne	+	CO_2	10224	Suzukawa Jr.,	78
O	+	CO	7712	Korsch,	76
			13409	Bogan Jr.,	74
O	+	HCl	10571	Tait,	73
O	+	HF	10571	Tait,	73
O	+	N_2	9571	Delgado-Barrio,	77
			10360	Tully,	74
			11023	Shipsey,	72
			11958	Locker,	70
O	+	OH	10571	Tait,	73
O	+	CO_2	6087	Bass,	74
O	+	NH_3	6087	Bass,	74
O*	+	N_2	14273	Villarreal,	79
Pb	+	D_2	6714	Ewing,	74
Si	+	I_2	14785	Bowman,	79
T	+	CN	11958	Locker,	70
T	+	ND	11958	Locker,	70
Te	+	H_2	6714	Ewing,	74
Xe	+	I_2	10418	Rubinson,	74
Zn*	+	NO	14277	Breckenridge,	79
Br_2	+	Br_2	8207	Bergeron,	76
CO	+	CO	5397	Dawson,	72
			5881	Stettler,	73
			6757	Liu,	75
			7168	Sharma,	75
			7427	Misra,	74
			7645	Brechignac,	75
			8169	Procaccia,	75
			8903	Chow Chiu,	76
			11363	Jeffers,	71
			12606	Lev-On,	74
			12615	Sharma,	75
			12633	Bergeron,	75
			13356	Dillon,	72
			14768	Shin,	79
			15153	Hess,	70
CO	+	CO^{+1}	7184	Moran,	75
CO	+	Cl_2	10095	Shin,	77
CO	+	DCl	7427	Misra,	74
CO	+	D_2	10095	Shin,	77
			10401	Shin,	74

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CO	+	H_2	11243	Stricker, 78
CO	+	N_2	7427	Misra, 74
			8169	Procaccia, 75
			10095	Shin, 77
			10401	Shin, 74
			11325	Caledonia, 71
			14066	Chapuisat, 79
CO	+	NO	8169	Procaccia, 75
			9764	Doyennette, 77
			10401	Shin, 74
CO	+	O_2	9764	Doyennette, 77
			10401	Shin, 74
CO	+	OCS	11165	Lev-On, 72
CO	+	O_3	8898	Hui, 76
CO^{*}	+	CO	7265	Slanger, 75
CO^{*}	+	N_2	7265	Slanger, 75
CO^{+1}	+	CO	7184	Moran, 75
Cl_2	+	Cl	10270	Procaccia, 75
Cl_2	+	Cl_2	8207	Bergeron, 76
			12633	Bergeron, 75
D_2	+	CO	9764	Doyennette, 77
D_2	+	D_2	5407	Calvert, 72
			9211	Skodje, 77
			10302	Cohen, 74
			10889	Alexander, 73
D_2	+	D_2^{+1}	6917	Flannery, 75
D_2	+	HD	11952	Wilson, 70
D_2	+	H_2	5407	Calvert, 72
			11406	Brown, 78
D_2^{+1}	+	D_2	6917	Flannery, 75
			7905	Stocker, 74
DF	+	DF	6778	Shin, 75
			9594	Shin, 76
			14070	Wilkins, 79
DF	+	CO_2	5396	Dillon, 73
			10428	Dillon, 74
			10974	Dillon, 73
HBr	+	HBr	5881	Stettler, 73
			7427	Misra, 74
			10969	Sharma, 73
HBr	+	H_2	14066	Chapuisat, 79
HCl	+	HBr	7427	Misra, 74
HCl	+	HCl	5881	Stettler, 73
			10412	Shin, 74
			10969	Sharma, 73
			12576	Sharma, 74
HCl	+	CO_2	5396	Dillon, 73
HD	+	HD	11952	Wilson, 70
			12633	Bergeron, 75
HF	+	HF	6778	Shin, 75
HF	+	HF	7196	Shin, 75
			8147	Shin, 76
			10136	Wilkins, 77
			12589	Shin, 74
			12757	Billing, 78
HF	+	H_2	7427	Misra, 74
HF	+	CO_2	5396	Dillon, 73
			10428	Dillon, 74
			10974	Dillon, 73
HF	+	H_2O	6948	Shin, 75
H_2	+	Br_2	14490	Cross Jr., 79
			15446	Clark, 73
H_2	+	Cl_2	12439	Gianturco, 70
H_2	+	D_2	5407	Calvert, 72
			6334	Alexander, 74
			10302	Cohen, 74
			11406	Brown, 78
			12587	Cohen, 74
H_2	+	HBr	14066	Chapuisat, 79
H_2	+	HCl	12941	Eberhardt, 78
H_2	+	H_2	5407	Calvert, 72
			7230	Jolicard, 75
			8713	Dwyer, 76
			8847	Gordon, 76
			8890	Billing, 76
			9211	Skodje, 77
			11033	Morse, 72
			11146	Kiefer, 72
			11172	Shizgal, 72
			11952	Wilson, 70
			12633	Bergeron, 75
			14066	Chapuisat, 79
			14793	Shin, 79
			15304	Shin, 73
H_2	+	H_2^{+1}	6917	Flannery, 75
			7184	Moran, 75
H_2	+	N_2	11033	Morse, 72
H_2	+	O_2	12439	Gianturco, 70
H_2	+	NH_3	11037	Fabris, 72
H_2^{+1}	+	H	6917	Flannery, 75
H_2^{+1}	+	H_2	7184	Moran, 75
			7905	Stocker, 74
I_2	+	I_2	15304	Shin, 73
N_2	+	CO	7427	Misra, 74
			9764	Doyennette, 77
			10289	Shin, 74
			10401	Shin, 74
			11325	Caledonia, 71
			14066	Chapuisat, 79
N_2	+	HCl	5436	Berend, 72
N_2	+	H_2	11033	Morse, 72
N_2	+	N_2	6931	McKenzie, 75

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N_2	+	N_2	7230	Jolicard, 75
			8847	Gordon, 76
			9907	Schatz, 77
			12633	Bergeron, 75
			14066	Chapuisat, 79
			14490	Cross Jr., 79
			15028	Billing, 79
			15153	Hess, 70
			15446	Clark, 73
N_2	+	N_2^{+1}	7184	Moran, 75
N_2	+	O_2	5436	Berend, 72
			10468	Chapuisat, 77
			13781	Jolicard, 78
			14066	Chapuisat, 79
N_2	+	CO_2	12941	Eberhardt, 78
N_2^{+1}	+	N_2	7184	Moran, 75
NO	+	N_2	10401	Shin, 74
NO	+	NO^{+1}	7184	Moran, 75
NO^{+1}	+	NO	7184	Moran, 75
OD	+	CO_2	5427	Basov, 72
O_2	+	N_2	10468	Chapuisat, 77
			13781	Jolicard, 78
			14066	Chapuisat, 79
O_2	+	O_2	8207	Bergeron, 76
			11146	Kiefer, 72
			12776	Capitelli, 78
			15153	Hess, 70
O_2	+	O_2^{+1}	7184	Moran, 75
O_2^{+1}	+	O_2	7184	Moran, 75
CO_2	+	DF	6962	Gait, 75
CO_2	+	HCl	6962	Gait, 75
CO_2	+	HF	6962	Gait, 75
CO_2	+	HI	6962	Gait, 75
CO_2	+	N_2	6716	Sharma, 75
			7162	Inoue, 75
			8903	Chow Chiu, 76
			12498	Andreev, 71
			14758	Billing, 79
CO_2	+	CO_2	8814	Fujimoto, 76
			15104	Dupre, 75
N_2O	+	N_2	12928	Picard–Berselli, 78
O_3	+	OCS	8898	Hui, 76
SO_2	+	SO_2	14233	Rao, 79
CH_4	+	CH_4	11510	Ulrich, 78
– –			14489	Cross Jr., 79

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Ar	+	HF	15306	Shin, 73
Ar^*	+	D_2	9227	Huo, 77
Ar^*	+	HD	9227	Huo, 77

Ar^*	+	H_2	9227	Huo, 77
Cs^*	+	N_2	14897	Meitlis, 72
F	+	H_2	13016	Latham, 78
He	+	H_2	8014	Lin, 75
			9276	Schatz, 77
			11522	Eno, 78
			14528	De Pristo, 79
Kr	+	CO_2	15128	Schatz, 79
Li^{+1}	+	H_2	8902	Barg, 76
Na^*	+	Molecules	14765	Taylor, 79
Na^{+1}	+	D_2	14867	Faubel, 74
CO	+	CO	15126	Wassam Jr., 79
CO^{+1}	+	CO	8997	Flannery, 76
HBr	+	Br_2	15115	Jolicard, 78
HF	+	H	7061	Shin, 75
H_2	+	Br_2	15115	Jolicard, 78
H_2	+	Cl_2	15115	Jolicard, 78
H_2^{+1}	+	H_2	9137	Moran, 77
N_2	+	Br_2	15115	Jolicard, 78
N_2	+	Cl_2	15115	Jolicard, 78
N_2^{+1}	+	N_2	8997	Flannery, 76
NO^{+1}	+	NO	8997	Flannery, 76
O_2^*	+	Molecules	9815	Thomas, 77
O_2^{+1}	+	O_2	8997	Flannery, 76
– –			6857	Clark, 75
			7199	Zimmerman, 75
			7226	Gentry, 75
			7229	Jolicard, 75
			7686	Jolicard, 76
			7757	Ficocelli Varracc, 7
			7912	Atabek, 76
			8020	Sayasov, 75
			8201	Collins, 76
			8219	Pechukas, 76
			8311	Vitlina, 74
			8445	Makowski, 76
			8928	Stettler, 76
			8929	Gait, 76
			9088	Baxter, 77
			9103	Makowski, 76
			9561	Nikitin, 76
			9564	Connor, 76
			9565	Procaccia, 76
			9568	Collins, 77
			9761	De Vries, 77
			9916	Chang, 77
			9981	Gavrikov, 76
			9990	Brandt, 73
			10149	Dougherty, 77
			10241	Olmsted, 77
			10329	Stallcop, 75

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10338	Sorensen,	74
10342	Lin,	74
10431	Liu,	74
10434	Eastes,	74
10438	Storm,	74
10583	Shobatake,	73
10586	Storm,	73
10690	Chauvin,	76
10849	Hickman,	77
10862	Sayasov,	77
10894	Hunter,	73
10898	Storm,	73
10931	Koppel,	73
10970	Hanson,	73
10975	Hunter,	73
10976	Hunter,	73
11003	Gordon,	73
11069	Levine,	72
11070	Roberts,	72
11076	Stallcop,	72
11077	Pechukas,	72
11082	Kelley,	72
11120	Curtiss,	77
11123	Raczynski,	77
11205	Roberts,	72
11213	Wilson,	72
11390	Thiele,	71
11395	Chiu,	71
11402	Wong,	71
11408	Sigmund,	78
11775	Miller,	78
11911	Malins,	78
11917	Lin,	78
11948	Roberts,	70
11959	Kelley,	70
11970	Locker,	70
12044	Diestler,	70
12078	Roberts,	70
12096	Roberts,	71
12103	Hansen,	71
12104	Miller,	71
12126	Harris,	71
12138	Yao,	71
12145	Diestler,	71
12427	Nyeland,	70
12451	Levine,	70
12452	Miller,	70
12468	Levine,	71
12514	Tam,	72
12540	Shin,	73
12544	Chang,	73
12588	Alexander,	74
12607	Bergeron,	74
12617	Billing,	75
12619	Manz,	75
12626	Atabek,	75
13407	Penner,	74
13695	Clinton,	70

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- -	14249	Levine,	79
	14270	Gottdiener,	79
	14867	Faubel,	74
	14869	Clarke,	74
	15074	Gordon,	79
	15083	Lester Jr.,	75
	15110	Sire,	78
	15120	Malik,	78
	15144	Jean,	75
	15252	Ovchinnikov,	72
	15369	Connor,	74

ELECTRONIC EXCITATION EXPERIMENTAL

REVIEW

- -	9537	Kempter,	76
	15156	Doering,	73
	15166	Kempter,	75

ORIGINAL DATA

Al^{+1}	+	Kr	10785	Dowek,	77
Al^{+1}	+	Ne	10785	Dowek,	77
			13434	Andersen,	74
Al^{+1}	+	Xe	10785	Dowek,	77
Ar	+	Ar	7281	Kempter,	75
			7679	Brenot,	75
			7951	Kempter,	75
			9635	Kempter,	76
			14266	Rothwell Jr.,	79
Ar	+	Ar^{+1}	7953	Isler,	75
Ar	+	Ba^{+1}	15283	Shpenik,	74
Ar	+	Ca^{+1}	12235	Ovchinnikov,	77
			15283	Shpenik,	74
Ar	+	Cd*	10214	Gordeev,	77
Ar	+	Cs*	5859	Pimbert,	73
Ar	+	Cs^{+1}	13272	Zapesochnyi,	72
Ar	+	H	7787	Roussel,	75
			7931	Kleckner,	75
			7932	Suchannek,	75
			13426	Sauers,	74
			13610	Morgan,	74
			13733	Birely,	72
			15316	Orbeli,	70
Ar	+	H^{-}	10458	Harnois,	77
			11845	Esaulov,	78
Ar	+	H^{+1}	7565	Kleckner,	74
Ar	+	He^{+1}	8454	Shah,	76
			13600	Gerber,	73
Ar	+	Hg*	15303	Madhavan,	73
Ar	+	K	10775	Martin,	77
			12013	Zehnle,	78
			12591	Duren,	74
			13611	Kempter,	74

Ar	+	K	13632	Kempter, 74
			13658	Alber, 75
			15133	Andersen, 79
Ar	+	K^{+1}	7944	Bobashev, 75
			7950	Menendez, 75
			8138	Afrosimov, 76
			8829	Bobashev, 76
			13260	Pop, 71
			15168	Bobashev, 70
			15337	Afrosimov, 72
Ar	+	Mg^{+1}	8263	Fayeton, 76
			15075	Andersen, 79
			15283	Shpenik, 74
			15428	Ovchinnikov, 74
Ar	+	N^{+1}	13424	Moore Jr., 74
Ar	+	Na	10103	Mecklenbrauck, 77
			10776	Kempter, 77
			12763	Phillips, 78
			13973	Apt, 79
			14852	Niewitecka, 73
			15062	Andersen, 79
Ar	+	$Na^{\cdot}$	9380	Gallagher, 77
Ar	+	Ne	9635	Kempter, 76
Ar	+	Rb	14746	Speller, 79
Ar	+	Rb^{+1}	8829	Bobashev, 76
Ar	+	S	14522	Black, 79
Ar	+	Sr^{+1}	7750	Zapesochnyi, 75
			12235	Ovchinnikov, 77
			15283	Shpenik, 74
Ar	+	Tl	13267	Chaika, 72
Ar	+	$Tl^{\cdot}$	15078	Gelbhaar, 73
Ar	+	Zn^{+1}	15133	Andersen, 79
Ar	+	H_2	6966	McNeely, 75
Ar	+	N_2	6966	McNeely, 75
			8838	Sanders, 76
			12147	Calo, 71
			12622	Golde, 75
			13263	Bochkova, 71
Ar	+	N_2^{+1}	13692	Liu, 70
			14957	Fayeton, 71
Ar	+	NO	6966	McNeely, 75
Ar	+	CD_2	11954	Eder, 70
Ar	+	CH_2	11954	Eder, 70
$Ar^{\cdot}$	+	Cl	9072	King, 77
			9226	Clyne, 77
			14651	Setser, 78
$Ar^{\cdot}$	+	H	11426	Clyne, 78
			14651	Setser, 78
			14751	Monkhouse, 76
$Ar^{\cdot}$	+	Kr	5299	Gedanken, 72
			7285	Piper, 75

Ar^*	+	Kr	9785	Piper, 77
			13239	Bochkova, 70
			14651	Setser, 78
$Ar^{\cdot}$	+	O	9072	King, 77
			12600	Piper, 74
			14651	Setser, 78
$Ar^{\cdot}$	+	Xe	5299	Gedanken, 72
			9072	King, 77
			13239	Bochkova, 70
			14651	Setser, 78
$Ar^{\cdot}$	+	D_2	10167	Yokoyama, 77
$Ar^{\cdot}$	+	H_2	10167	Yokoyama, 77
			10220	McKenney, 77
$Ar^{\cdot}$	+	H_2	11043	Fink, 72
$Ar^{\cdot}$	+	N_2	7820	Martin, 75
			9584	Chen, 76
			9642	Touzeau, 77
			9766	Kolts, 77
			9812	Krenos, 77
			10320	Winicur, 74
			10918	Le Calve, 73
			12203	Parr, 78
			14651	Setser, 78
Ar^{+1}	+	Ar	7953	Isler, 75
			13525	Barat, 70
			15000	Bierman, 73
Ar^{+1}	+	SO_2	11792	Fukutome, 78
Be^{+1}	+	Ne	13434	Andersen, 74
Ca^{+1}	+	Cd	15339	Shpenik, 72
Cd	+	Ba^{+1}	15339	Shpenik, 72
Cd	+	Ca^{+1}	15339	Shpenik, 72
Cd	+	Mg^{+1}	13268	Zavilopulo, 72
			15339	Shpenik, 72
Cd	+	Sr^{+1}	15339	Shpenik, 72
Cd	+	NO	8837	Breckenridge, 76
$Cd^{\cdot}$	+	Cd	14959	Laniepce, 72
$Cd^{\cdot}$	+	Cs	15051	Kartasheva, 78
$Cd^{\cdot}$	+	N_2	6280	Morozov, 73
Cd^{+1}	+	Cd	13265	Zavilopulo, 72
Cs	+	$Cs^{\cdot}$	5859	Pimbert, 73
			14861	Pace, 74
Cs	+	H	13355	Mathur, 72
Cs	+	Mg^{+1}	10216	Zavilopulo, 77
$Cs^{\cdot}$	+	Ar	5718	Cuvellier, 73
$Cs^{\cdot}$	+	Cs	11470	Yabuzaki, 78
$Cs^{\cdot}$	+	$Cs^{\cdot}$	10100	Leslie, 77
$Cs^{\cdot}$	+	He	5718	Cuvellier, 73
$Cs^{\cdot}$	+	Kr	5718	Cuvellier, 73
$Cs^{\cdot}$	+	Ne	5718	Cuvellier, 73

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Cs^{*}	+	Xe	5718	Cuvellier, 73
Cs^{+1}	+	K	8993	Aquilanti, 76
D	+	N_2	13423	Birely, 74
			15099	Birely, 74
D^{*}	+	D_2	10246	Su, 75
D^{+1}	+	H	13427	Kondow, 74
D^{+1}	+	N_2	13423	Birely, 74
Eu^{*}	+	Eu	10097	Karlov, 77
H	+	H	13610	Morgan, 74
			15070	Hill, 79
H	+	CO	10363	Bearman, 78
H	+	H_2	8842	Lewis, 76
H	+	N_2	10363	Bearman, 78
			13423	Birely, 74
			15099	Birely, 74
H	+	CO_2	10392	Haugh, 74
H^{*}	+	D	15048	Follmer, 79
H^{*}	+	D_2	10246	Su, 75
			10884	Van Volkenburgh, 73
H^{*}	+	H_2	12450	Chow, 70
H^{+1}	+	Ar	13372	Crandall, 73
			13579	Abignoli, 72
H^{+1}	+	H	9877	Chong, 77
			13162	Houver, 72
			13427	Kondow, 74
			13603	Morgan, 73
			13619	Houver, 74
			13687	Kauppila, 70
H^{+1}	+	He	13372	Crandall, 73
H^{+1}	+	Kr	13579	Abignoli, 72
H^{+1}	+	Li	15060	Myers, 79
H^{+1}	+	Mg	7930	McCullough, 75
H^{+1}	+	Xe	13579	Abignoli, 72
H^{+1}	+	CO	12035	Moore Jr., 70
H^{+1}	+	N_2	12035	Moore Jr., 70
			13423	Birely, 74
			14928	Moore Jr., 72
			14982	De Heer, 70
H^{+1}	+	NO	8910	Bearman, 76
H^{+1}	+	O_2	11350	Moore Jr., 71
H^{+1}	+	C_2H_2	12035	Moore Jr., 70
H^{+1}	+	C_2H_4	12035	Moore Jr., 70
He	+	Ar	7627	Brenot, 75
			9635	Kempter, 76
He	+	Ba^{+1}	15283	Shpenik, 74
He	+	Be^{+1}	7282	Olsen, 75
			7669	Andersen, 75
			14196	Olsen, 79
He	+	Ca^{+1}	15283	Shpenik, 74

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He	+	Cd^{*}	10214	Gordeev, 77
He	+	Cs^{*}	5859	Pimbert, 73
He	+	Cs^{+1}	13272	Zapesochnyi, 72
He	+	H	7787	Roussel, 75
			13426	Sauers, 74
			13615	Flannery, 74
			13733	Birely, 72
			15316	Orbeli, 70
He	+	H^{-}	10458	Harnois, 77
He	+	He	6964	Kempter, 75
			7679	Brenot, 75
			9635	Kempter, 76
			10104	Morgenstern, 77
			12870	Bagaev, 77
			14681	Kimura, 79
			14854	Kalra, 73
He	+	He^{+1}	8454	Shah, 76
			13572	Barat, 72
			14275	Bordenave-Montes, 79
He	+	Hg^{*}	11789	Lukaszewski, 78
			15303	Madhavan, 73
He	+	K	12013	Zehnle, 78
			12591	Duren, 74
			13658	Alber, 75
			15133	Andersen, 79
He	+	K^{*}	15068	Cuvellier, 79
He	+	K^{+1}	13260	Pop, 71
			15321	Pop, 70
He	+	Kr	7627	Brenot, 75
He	+	Li	13798	Nielsen, 78
He	+	Li^{+1}	15222	Andersen, 73
He	+	Mg	7930	McCullough, 75
			14665	Bisgaard, 79
He	+	Mg^{+1}	7669	Andersen, 75
			7948	Andersen, 75
			14665	Bisgaard, 79
			15075	Andersen, 79
			15283	Shpenik, 74
			15428	Ovchinnikov, 74
He	+	N^{+1}	14662	Okasaka, 79
He	+	Na	10103	Mecklenbrauck, 77
			10776	Kempter, 77
			10777	Andersen, 77
			14852	Niewitecka, 73
			15062	Andersen, 79
He	+	Na^{*}	9380	Gallagher, 77
He	+	Ne	7627	Brenot, 75
			9595	Klimentova, 75
			9635	Kempter, 76
			10402	Arrathoon, 74
			13241	Desai, 70
He	+	Ne^{*}	15066	Webster, 79

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He	+	O	12140	McConkey,	71
He	+	Rb	14746	Speller,	79
He	+	Rb^{+1}	15317	Matveev,	70
He	+	S	14522	Black,	79
He	+	Sr^{+1}	13017	Volovich,	78
			15283	Shpenik,	74
He	+	Tl	13267	Chaika,	72
He	+	Tl*	15078	Gelbhaar,	73
He	+	Xe	7627	Brenot,	75
He	+	Zn^{+1}	10777	Andersen,	77
			15133	Andersen,	79
He	+	N_2	10363	Bearman,	78
			13361	Hoffman,	73
He	+	N_2^{+1}	11318	Kelley,	78
			13408	Bregman-Reisler,	74
			13692	Liu,	70
			14957	Fayeton,	71
He	+	O_2	10363	Bearman,	78
He	+	CD_2	11954	Eder,	70
He	+	CH_2	11954	Eder,	70
He*	+	Ar^{+1}	13285	Bochkova,	74
He*	+	He	5363	Jobe,	72
			8985	Wine,	76
			8996	Shaw,	76
			9121	Bagaev,	76
			10104	Morgenstern,	77
			13243	Bogdanova,	70
			13718	Miller,	71
			13801	Jordan,	78
			14681	Kimura,	79
He*	+	Kr^{+1}	13285	Bochkova,	74
He*	+	Mg	7930	McCullough,	75
He*	+	Ne	5379	Ionikh,	71
			5755	Ionikh,	73
			6096	Aubes,	74
			7753	Leasure,	76
			9418	Haberland,	77
			9519	Haberland,	76
			13244	Desai,	70
			13714	Arrathoon,	71
He*	+	Rb^{+1}	15397	Gudkov,	73
He*	+	Xe	12568	Lantschner,	73
He*	+	Xe^{+1}	13285	Bochkova,	74
He*	+	N_2	13361	Hoffman,	73
He^{+1}	+	Ar	9791	Sidis,	77
			13180	Isler,	70
			13421	Isler,	74
			13524	Baudon,	70
			13600	Gerber,	73
He^{+1}	+	H	7766	Fayeton,	76
He^{+1}	+	H	7956	Fayeton,	75
			11048	Haugh,	72
He^{+1}	+	He	7177	Rahmat,	75
He^{+1}	+	He	8998	Vassilev,	76
			10104	Morgenstern,	77
			10802	Vassilev,	77
			13173	Vassilev,	75
			13194	Rahmat,	71
			13217	Barat,	73
			13572	Barat,	72
			13600	Gerber,	73
			13605	Brenot,	75
			13723	Rosenthal,	71
			14275	Bordenave-Montes,	79
			14681	Kimura,	79
			15354	Dashchenko,	75
He^{+1}	+	Kr	13524	Baudon,	70
He^{+1}	+	Li	15060	Myers,	79
He^{+1}	+	Mg	7930	McCullough,	75
He^{+1}	+	Na	10677	Pommier,	77
He^{+1}	+	Ne	13188	Tolk,	70
			13431	Isler,	74
			13524	Baudon,	70
He^{+1}	+	Xe	13524	Baudon,	70
He^{+1}	+	N_2	13361	Hoffman,	73
			14710	Gochitashvili,	79
He^{+1}	+	O_2	11350	Moore Jr.,	71
Hg	+	Cd	10465	Cheron,	77
Hg	+	Hg	13286	Bochkova,	74
			15407	Bochkova,	73
Hg	+	K	11909	Duren,	78
			12574	Kempter,	74
			13616	Kempter,	74
Hg	+	Tl	7634	Loh,	75
Hg	+	Hg_2	13411	Skonieczny,	74
Hg*	+	Ar	7716	Lecler,	76
Hg*	+	Cd	6280	Morozov,	73
			7241	Chernon,	74
			15117	Cremer,	78
Hg*	+	He	7716	Lecler,	76
Hg*	+	Hg	6678	Vienne-Casalta,	75
			14958	Cheron,	71
Hg*	+	Kr	7716	Lecler,	76
Hg*	+	Na	13261	Bogdanova,	71
			14849	Czajkowski,	73
Hg*	+	Ne	7716	Lecler,	76
Hg*	+	Tl	12236	Wade,	78
			15132	Kraulinya,	79
Hg*	+	Xe	7716	Lecler,	76
Hg*	+	Zn	6280	Morozov,	73

Hg^*	+	Zn	8084	Czajkowski,	76
			13240	Bochkova,	70
			15117	Cremer,	78
$Hg^{\cdot}$	+	CN	12554	Vikis,	73
			12565	Vikis,	73
$Hg^{\cdot}$	+	HgCl	12554	Vikis,	73
$Hg^{\cdot}$	+	HgH	12554	Vikis,	73
$Hg^{\cdot}$	+	NH	12554	Vikis,	73
$Hg^{\cdot}$	+	N_2	7716	Lecler,	76
$Hg^{\cdot}$	+	NO	8886	Krause,	76
$Hg^{\cdot}$	+	OH	12554	Vikis,	73
$I^{\cdot}$	+	O_2	15310	Derwent,	72
K	+	Ar	15315	Gersing,	73
K	+	Cs	13694	Pritchard,	70
K	+	H	13355	Mathur,	72
K	+	He	15315	Gersing,	73
K	+	K	12574	Kempter,	74
			12579	Kempter,	74
			15315	Gersing,	73
K	+	Kr	15315	Gersing,	73
K	+	Mg^{+1}	10216	Zavilopulo,	77
K	+	Ne	15315	Gersing,	73
K	+	Rb	13694	Pritchard,	70
K	+	Xe	15315	Gersing,	73
$K^{\cdot}$	+	Ar	14974	Lijnse,	74
$K^{\cdot}$	+	He	14974	Lijnse,	74
$K^{\cdot}$	+	Rb	13675	Stacey,	70
K^{+1}	+	Ar	7950	Menendez,	75
			8138	Afrosimov,	76
			9092	Odom,	77
			15337	Afrosimov,	72
K^{+1}	+	He	15321	Pop,	70
K^{+1}	+	Hg	10808	Aquilanti,	77
			11103	Aquilanti,	78
K^{+1}	+	K	7987	Aquilanti,	76
K^{+1}	+	Na	10283	Aquilanti,	74
K^{+1}	+	Ne	15317	Matveev,	70
			15324	Pop,	71
Kr	+	Al^{+1}	10785	Dowek,	77
Kr	+	Ba^{+1}	7942	Ovchinnikov,	75
			15283	Shpenik,	74
Kr	+	Ca^{+1}	13017	Volovich,	78
			15283	Shpenik,	74
Kr	+	$Cd^{\cdot}$	10214	Gordeev,	77
Kr	+	$Cs^{\cdot}$	5859	Pimbert,	73
Kr	+	H	13733	Birely,	72
			15316	Orbeli,	70
Kr	+	He^{+1}	8454	Shah,	76

Kr	+	$Hg^{\cdot}$	15303	Madhavan,	73
Kr	+	K	12013	Zehnle,	78
			12591	Duren,	74
			13420	Vora,	74
			13611	Kempter,	74
			13632	Kempter,	74
			13658	Alber,	75
Kr	+	Kr	7679	Brenot,	75
			14266	Rothwell Jr.,	79
Kr	+	Mg^{+1}	15283	Shpenik,	74
			15428	Ovchinnikov,	74
Kr	+	N^{+1}	13424	Moore Jr.,	74
Kr	+	Na	10103	Mecklenbrauck,	77
			10776	Kempter,	77
			13973	Apt,	79
			14852	Niewitecka,	73
Kr	+	Rb	14746	Speller,	79
Kr	+	S	14522	Black,	79
Kr	+	Sr^{+1}	7750	Zapesochnyi,	75
			13017	Volovich,	78
			15283	Shpenik,	74
Kr	+	$Tl^{\cdot}$	15078	Gelbhaar,	73
Kr	+	$N_2{}^{+1}$	13692	Liu,	70
$Kr^{\cdot}$	+	Hg	7983	Lee,	76
$Kr^{\cdot}$	+	Xe	5299	Gedanken,	72
Kr^{+1}	+	Kr	13525	Barat,	70
Li	+	H	13355	Mathur,	72
Li	+	Ne	10049	Andersen,	77
Li^{+1}	+	Ar	13602	Barat,	73
Li^{+1}	+	He	13568	Lorents,	72
			13569	Francois,	72
			15222	Andersen,	73
			15393	Latypov,	71
			15396	Afrosimov,	72
Li^{+1}	+	Hg	10808	Aquilanti,	77
			11103	Aquilanti,	78
Li^{+1}	+	K	8993	Aquilanti,	76
			10283	Aquilanti,	74
Li^{+1}	+	Kr	13602	Barat,	73
Li^{+1}	+	Na	10283	Aquilanti,	74
Li^{+1}	+	Ne	10049	Andersen,	77
			13434	Andersen,	74
			13602	Barat,	73
Li^{+1}	+	Xe	13602	Barat,	73
Mg^{+1}	+	Cd	13268	Zavilopulo,	72
			15339	Shpenik,	72
Mg^{+1}	+	Cs	10216	Zavilopulo,	77
			15399	Zavilopulo,	73
Mg^{+1}	+	He	9090	Andresen,	77
Mg^{+1}	+	K	10216	Zavilopulo,	77

Mg^{+1}	+	Na	10216	Zavilopulo, 77
Mg^{+1}	+	Ne	8263	Fayeton, 76
			13177	Andersen, 73
			13434	Andersen, 74
Mg^{+1}	+	Rb	10216	Zavilopulo, 77
			15399	Zavilopulo, 73
N^{+1}	+	He	14662	Okasaka, 79
N^{+1}	+	Ne	13177	Andersen, 73
			13434	Andersen, 74
N^{+1}	+	O_2	13389	Moore Jr., 73
Na	+	Ar	10103	Mecklenbrauck, 77
			10776	Kempter, 77
			11812	Biraben, 78
Na	+	Cs	13694	Pritchard, 70
Na	+	H	13355	Mathur, 72
Na	+	He	10103	Mecklenbrauck, 77
			10776	Kempter, 77
			11812	Biraben, 78
Na	+	K	12574	Kempter, 74
			12579	Kempter, 74
			13694	Pritchard, 70
Na	+	Kr	10103	Mecklenbrauck, 77
			10776	Kempter, 77
			11812	Biraben, 78
Na	+	Mg^{+1}	10216	Zavilopulo, 77
Na	+	Na	8866	Allegrini, 76
Na	+	Ne	9635	Kempter, 76
			10049	Andersen, 77
			10103	Mecklenbrauck, 77
			10776	Kempter, 77
			11812	Biraben, 78
Na	+	Rb	13694	Pritchard, 70
Na	+	Xe	10103	Mecklenbrauck, 77
			10776	Kempter, 77
			11812	Biraben, 78
Na	+	NO_2	12525	Kempter, 72
Na^{*}	+	K	7165	Allegrini, 75
Na^{*}	+	Na	6971	Chen, 75
			9885	Allegrini, 77
Na^{*}	+	Rb	7822	Pritchard, 75
Na^{+1}	+	He	15388	Bobashev, 70
Na^{+1}	+	Hg	9410	Aquilanti, 77
			10808	Aquilanti, 77
			11103	Aquilanti, 78
Na^{+1}	+	K	8993	Aquilanti, 76
			10283	Aquilanti, 74
Na^{+1}	+	Ne	8864	Bydin, 76
			10049	Andersen, 77
			13167	Tolk, 73
			13177	Andersen, 73
			13434	Andersen, 74

Na^{+1}	+	Ne	14281	Olsen, 79
Ne	+	Al^{+1}	10785	Dowek, 77
Ne	+	Ar	9635	Kempter, 76
Ne	+	Ba^{+1}	12235	Ovchinnikov, 77
			15283	Shpenik, 74
Ne	+	Be^{+1}	14196	Olsen, 79
			14203	Andersen, 79
Ne	+	C^{+1}	10781	Dowek, 77
Ne	+	Ca^{+1}	12235	Ovchinnikov, 77
			15283	Shpenik, 74
Ne	+	Cd^{*}	10214	Gordeev, 77
Ne	+	Cs^{*}	5859	Pimbert, 73
Ne	+	Cs^{+1}	13272	Zapesochnyi, 72
			15317	Matveev, 70
Ne	+	H	13733	Birely, 72
			15316	Orbeli, 70
Ne	+	He	13241	Desai, 70
Ne	+	Hg^{*}	15303	Madhavan, 73
Ne	+	K	12013	Zehnle, 78
			12591	Duren, 74
			13658	Alber, 75
			15133	Andersen, 79
Ne	+	K^{+1}	13260	Pop, 71
			15317	Matveev, 70
			15324	Pop, 71
Ne	+	Mg^{+1}	7947	Fayeton, 75
			7948	Andersen, 75
			8263	Fayeton, 76
			15075	Andersen, 79
Ne	+	Mg^{+1}	15283	Shpenik, 74
			15428	Ovchinnikov, 74
Ne	+	Na	10103	Mecklenbrauck, 77
			10776	Kempter, 77
			11756	Pedersen, 78
			13973	Apt, 79
			14852	Niewitecka, 73
			15062	Andersen, 79
Ne	+	Na^{*}	9380	Gallagher, 77
Ne	+	Na^{+1}	15357	Belik, 75
Ne	+	Ne	7281	Kempter, 75
			7679	Brenot, 75
			9635	Kempter, 76
			10783	Martin, 77
			13942	Martin, 78
Ne	+	Ne^{*}	6567	Fukuda, 75
			14393	Prins, 77
			15210	Sierra, 79
Ne	+	Ne^{+1}	7953	Isler, 75
			13600	Gerber, 73
Ne	+	Rb	14746	Speller, 79
Ne	+	Sr^{+1}	13017	Volovich, 78

Ne	+	Sr^{+1}	15283	Shpenik, 74
Ne	+	Tl^*	15078	Gelbhaar, 73
Ne	+	Zn^{+1}	15133	Andersen, 79
Ne	+	N_2^{+1}	13408	Bregman–Reisler, 74
			13692	Liu, 70
Ne^*	+	Ar^{+1}	13285	Bochkova, 74
Ne^*	+	Kr^{+1}	13285	Bochkova, 74
Ne^*	+	Ne	7709	Grandin, 75
			9876	Pinard, 77
Ne^*	+	Ne^*	8904	Nakata, 76
Ne^*	+	Xe^{+1}	11803	Kurov, 77
			13285	Bochkova, 74
Ne^{+1}	+	He	7943	Veje, 75
			7945	Hasselkamp, 75
			9090	Andresen, 77
			13188	Tolk, 70
			13524	Baudon, 70
Ne^{+1}	+	Ne	7926	Schartner, 75
			7953	Isler, 75
			13525	Barat, 70
			13600	Gerber, 73
			15000	Bierman, 73
O	+	Cs	13420	Vora, 74
O	+	K	13420	Vora, 74
O	+	Na	13420	Vora, 74
O	+	Rb	13420	Vora, 74
O^*	+	Ar	11473	Windrich, 78
O^*	+	Kr	11473	Windrich, 78
O^*	+	Xe	11473	Windrich, 78
O^*	+	O_2	13352	Lee, 78
O^{+1}	+	Ne	13177	Andersen, 73
			13434	Andersen, 74
Rb	+	H	13355	Mathur, 72
Rb	+	Mg^{+1}	10216	Zavilopulo, 77
Rb	+	Rb^*	14860	Pace, 74
Rb^*	+	He	14974	Lijnse, 74
Rb^{+1}	+	Ar	15340	Bobashev, 72
Rb^{+1}	+	K	8993	Aquilanti, 76
Sr^{+1}	+	Cd	15339	Shpenik, 72
Tl^*	+	H_2	8089	Gelbhaar, 76
Tl^*	+	N_2	8089	Gelbhaar, 76
Xe	+	Al^{+1}	10785	Dowek, 77
Xe	+	Ba^{+1}	15283	Shpenik, 74
Xe	+	Ca^{+1}	13017	Volovich, 78
			15283	Shpenik, 74
Xe	+	Cd^*	10214	Gordeev, 77
Xe	+	Cs^*	5859	Pimbert, 73

Xe	+	H	13733	Birely, 72
			15316	Orbeli, 70
Xe	+	H^-	10458	Harnois, 77
Xe	+	K	12013	Zehnle, 78
			12591	Duren, 74
			13611	Kempter, 74
			13632	Kempter, 74
			13658	Alber, 75
Xe	+	Mg^{+1}	15283	Shpenik, 74
			15428	Ovchinnikov, 74
Xe	+	N^{+1}	13424	Moore Jr., 74
Xe	+	Na	10103	Mecklenbrauck, 77
			10776	Kempter, 77
			13973	Apt, 79
			14852	Niewitecka, 73
Xe	+	Rb	14746	Speller, 79
Xe	+	S	14522	Black, 79
Xe	+	Sr^{+1}	7750	Zapesochnyi, 75
			13017	Volovich, 78
			15283	Shpenik, 74
Xe	+	Tl	13267	Chaika, 72
Xe	+	Tl^*	15078	Gelbhaar, 73
Xe	+	Xe	14199	Buck, 79
Xe	+	Xe^*	14397	Sabbagh, 77
Xe	+	N_2^{+1}	14957	Fayeton, 71
Xe	+	CD_2	11954	Eder, 70
Xe	+	CH_2	11954	Eder, 70
Xe^*	+	N_2	11597	Tracy, 78
Zn	+	NO	8832	Breckenridge, 76
Zn^*	+	NO	14277	Breckenridge, 79
Zn^{+1}	+	Cd	15331	Shpenik, 71
Zn^{+1}	+	Zn	13245	Zapesochnyi, 70
Ar_2^*	+	Kr	5299	Gedanken, 72
Ar_2^*	+	Xe	5299	Gedanken, 72
			10574	Cheshnovsky, 73
CN	+	CN	10921	Coxon, 73
			12866	Duric, 78
CO	+	H	11030	Birely, 72
			15097	Birely, 72
CO	+	Hg	12535	Van Itallie, 72
CO	+	Hg^*	15303	Madhavan, 73
CO	+	K	12436	Kempter, 70
			12437	Lacmann, 70
			12496	Kempter, 71
			12555	Kempter, 73
			13616	Kempter, 74
			13956	Martin, 79
			15315	Gersing, 73
CO	+	Na	12496	Kempter, 71

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CO	+	Na^*	9641	Gallagher,	77
CO	+	CN	8848	Ochkin,	76
CO	+	N_2^{+1}	13692	Liu,	70
CO^*	+	Hg	7983	Lee,	76
D_2	+	Hg^*	15303	Madhavan,	73
D_2	+	Na	5368	Krause,	72
D_2	+	Rb^*	14848	Siara,	73
D_2	+	N_2^{+1}	13692	Liu,	70
HD	+	Rb^*	14848	Siara,	73
HF	+	Br	6662	Quigley,	75
			7870	Wodarczyk,	76
HF	+	I	9404	Wanner,	77
H_2	+	Cs	5864	Rocchiccioli,	72
H_2	+	H	7787	Roussel,	75
			11181	Hughes,	72
			13610	Morgan,	74
			15070	Hill,	79
			15097	Birely,	72
H_2	+	He^{+1}	8454	Shah,	76
H_2	+	Hg^*	15303	Madhavan,	73
H_2	+	Na	5368	Krause,	72
H_2	+	Rb^*	14848	Siara,	73
H_2	+	S	14522	Black,	79
H_2	+	N_2^{+1}	13692	Liu,	70
H_2^{+1}	+	Li	15060	Myers,	79
H_2^{+1}	+	CO	12035	Moore Jr.,	70
H_2^{+1}	+	N_2	12035	Moore Jr.,	70
H_2^{+1}	+	O_2	11350	Moore Jr.,	71
H_2^{+1}	+	C_2H_2	12035	Moore Jr.,	70
H_2^{+1}	+	C_2H_4	12035	Moore Jr.,	70
He_2	+	Xe^{+1}	7016	Shuker,	75
He_2^{+1}	+	Li	15060	Myers,	79
K_2^*	+	K	7823	Kraulinya,	75
			8125	Kopeikina,	75
Kr_2^*	+	Xe	5299	Gedanken,	72
			10574	Cheshnovsky,	73
LiF	+	He	10303	Dehmer,	74
LiF	+	Ne	10303	Dehmer,	74
LiF	+	Xe	10303	Dehmer,	74
LiF	+	D_2	10303	Dehmer,	74
LiF	+	CH_4	10303	Dehmer,	74
NF^*	+	Bi	13337	Capelle,	78
N_2	+	Ar	6781	Lee,	75
N_2	+	Cd^*	15063	Bulyshev,	79
N_2	+	Cs	5864	Rocchiccioli,	72
			6753	Kielkopf,	75
N_2	+	H	7931	Kleckner,	75

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N_2	+	H	7932	Suchannek,	75
			11181	Hughes,	72
			14276	Sheridan,	79
			14927	Birely,	71
			15097	Birely,	72
N_2	+	H^-	10458	Harnois,	77
N_2	+	H^{+1}	7565	Kleckner,	74
N_2	+	He^{+1}	8454	Shah,	76
			14710	Gochitashvili,	79
N_2	+	Hg	10488	Duthler,	73
			13513	Oka,	78
N_2	+	Hg^*	15303	Madhavan,	73
N_2	+	K	10655	Loesch,	77
			10656	Kempter,	77
			12436	Kempter,	70
			12437	Lacmann,	70
			12496	Kempter,	71
			12555	Kempter,	73
			13956	Martin,	79
			15315	Gersing,	73
N_2	+	Na	5368	Krause,	72
			9612	Eremin,	77
			12496	Kempter,	71
			13973	Apt,	79
N_2	+	Na^*	9641	Gallagher,	77
N_2	+	O	14713	Sheridan,	79
N_2	+	Rb^*	14848	Siara,	73
N_2	+	S	14522	Black,	79
N_2	+	Zn	10488	Duthler,	73
N_2	+	CO	6767	Dreyer,	74
N_2	+	Hg_2	13400	Phaneuf,	73
			13411	Skonieczny,	74
N_2	+	N_2	5384	Dreyer,	73
			8821	Burns,	76
			8826	Ung,	76
			10563	Hays,	73
			10885	Hays,	73
			15138	Cashin,	74
N_2	+	N_2^{+1}	13692	Liu,	70
N_2	+	NO	6767	Dreyer,	74
			10259	Hikida,	75
N_2	+	O_2	6767	Dreyer,	74
N_2	+	CH_2	11954	Eder,	70
N_2	+	CO_2	6767	Dreyer,	74
N_2	+	C_2H_4	5384	Dreyer,	73
N_2	+	C_2H_6	5384	Dreyer,	73
N_2^*	+	Hg	7983	Lee,	76
N_2^*	+	CO	15261	Golde,	72
N_2^*	+	N_2^*	12510	Hays,	72
N_2^{+1}	+	Ar	14957	Fayeton,	71

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N_2^{+1}	+	He	14957	Fayeton, 71
N_2^{+1}	+	Xe	14957	Fayeton, 71
NO	+	K	12436	Kempter, 70
			12437	Lacmann, 70
			12496	Kempter, 71
			12555	Kempter, 73
NO	+	Na	12496	Kempter, 71
NO	+	N_2^{+1}	13692	Liu, 70
NO^*	+	NO	11331	Melton, 71
NaI	+	Rb	10250	Neoh, 75
Na_2^*	+	Na	7823	Kraulinya, 75
O_2	+	H	7931	Kleckner, 75
			14276	Sheridan, 79
			14927	Birely, 71
			15097	Birely, 72
O_2	+	H^{+1}	7565	Kleckner, 74
O_2	+	He^{+1}	8454	Shah, 76
O_2	+	I	15310	Derwent, 72
O_2	+	K	12436	Kempter, 70
			12437	Lacmann, 70
			12496	Kempter, 71
			12555	Kempter, 73
			13616	Kempter, 74
O_2	+	Na	12496	Kempter, 71
O_2	+	O	12140	McConkey, 71
O_2	+	N_2^{+1}	13692	Liu, 70
O_2^*	+	O_2	11136	Jones, 72
O_2^*	+	NO_2	12478	O'Brien Jr., 71
CO_2	+	H	7931	Kleckner, 75
			11030	Birely, 72
			15097	Birely, 72
CO_2	+	H^{+1}	7565	Kleckner, 74
CO_2	+	K	12496	Kempter, 71
			12555	Kempter, 73
			13616	Kempter, 74
CO_2	+	Na	12496	Kempter, 71
			13973	Apt, 79
CO_2	+	N_2^{+1}	13692	Liu, 70
CS_2	+	Na	12496	Kempter, 71
D_2O	+	Hg^*	15303	Madhavan, 73
H_2O	+	Hg^*	15303	Madhavan, 73
N_2O	+	N_2^{+1}	13692	Liu, 70
NO_2	+	K	12496	Kempter, 71
			13616	Kempter, 74
NO_2	+	Na	11352	Le Breton, 71
			12496	Kempter, 71
NO_2	+	O_2	5971	Jones, 73
NO_2^*	+	O_2	8424	Giachardi, 76
			10924	Frankiewicz, 73

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NO_2^*	+	O_2	12489	Jones, 71
SO_2	+	K	12496	Kempter, 71
SO_2	+	Na	11352	Le Breton, 71
			12496	Kempter, 71
NH_3	+	H	11030	Birely, 72
			15097	Birely, 72
NH_3	+	Xe^*	11505	Smith, 78
CD_4	+	Rb^*	14848	Siara, 73
CF_4	+	CD_2	11954	Eder, 70
CF_4	+	CH_2	11954	Eder, 70
CH_3F	+	CH_3F	13170	Brewer, 74
CH_4	+	H	11030	Birely, 72
			15097	Birely, 72
CH_4	+	Hg^*	15303	Madhavan, 73
CH_4	+	Rb^*	14848	Siara, 73
CH_4	+	N_2^{+1}	13692	Liu, 70
C_2H_4	+	K	12496	Kempter, 71
			12555	Kempter, 73
C_2H_4	+	Na	12496	Kempter, 71
$C_6D_6^*$	+	C_6H_6	9154	Parmenter, 77
C_6H_6	+	K	12555	Kempter, 73
C_6H_6	+	C_2H_6CO	10242	Loper, 75
C_6H_{12}	+	Hg^*	15303	Madhavan, 73

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Ar	+	Cs	15052	Carlson, 79
Ar	+	K	15039	Zehnle, 79
Ar	+	N^{+1}	14679	Vujovic, 79
Ar^*	+	Kr	8899	Martin, 76
Ar^*	+	Xe	8899	Martin, 76
Ar^*	+	N_2	8907	Krenos, 76
			14262	Cutshall, 79
Ar^{+1}	+	H_2	14530	Brandt, 79
Ar^{+1}	+	NO	15155	Brandt, 73
C	+	CO	12043	Appleton, 70
C^{+1}	+	NO	15155	Brandt, 73
H	+	N_2	10668	Bearman, 77
H^{+1}	+	N_2	14976	Ghosh, 70
H^{+1}	+	H_2O	13003	Edmonson, 78
He	+	Cs	15052	Carlson, 79
He	+	He^*	15177	Hollstein, 70
He	+	K	14612	Zehnle, 78
			15039	Zehnle, 79
He	+	Na^*	14841	Elbel, 70
He	+	Ne	15177	Hollstein, 70
He	+	Sr	12188	Fahey, 78

REFERENCE

He	+	Sr^{+1}	7750	Zapesochnyi, 75
He^*	+	He	13647	Zhitnikov, 77
			15429	Latypov, 75
He^*	+	Ne	8899	Martin, 76
			15177	Hollstein, 70
He^*	+	H_2	15177	Hollstein, 70
He^{+1}	+	Ne	7763	Barat, 76
			15177	Hollstein, 70
Hg^*	+	Cd	14967	Cheron, 75
K^{+1}	+	Ar	7938	Bydin, 75
Kr	+	Cs	15052	Carlson, 79
Kr	+	K	15039	Zehnle, 79
Kr	+	CO	14650	Vikis, 78
Kr^*	+	Br	6970	Persin, 75
Kr^*	+	Xe	12867	Hugon, 78
Kr^*	+	CO	11895	Vikis, 78
N^{+1}	+	Ar	13581	Vujovic, 72
			14679	Vujovic, 79
N^{+1}	+	NO	15155	Brandt, 73
Na^*	+	Na^*	12864	Kopystynska, 78
Na^{+1}	+	Ar	7938	Bydin, 75
Na^{+1}	+	Ne	15385	Bobashev, 70
Ne	+	He^{+1}	7763	Barat, 76
Ne	+	K	15039	Zehnle, 79
Ne	+	Sr^{+1}	7750	Zapesochnyi, 75
O	+	CO	12043	Appleton, 70
O^{+1}	+	N_2	7929	Harris, 75
O^{+1}	+	NO	15155	Brandt, 73
Xe	+	K	15039	Zehnle, 79
Xe^*	+	CO	8374	Watadani, 76
CO	+	Cs	15052	Carlson, 79
Cl_2	+	Li	13151	Roeder, 78
HF	+	NF	14037	Macdonald, 79
H_2	+	He^*	15177	Hollstein, 70
H_2^{+1}	+	H_2O	13003	Edmonson, 78
N_2	+	Cs	15052	Carlson, 79
N_2	+	He^*	15177	Hollstein, 70
N_2	+	N_2	6722	Ravodina, 75
N_2^*	+	Bi	9151	Capelle, 77
N_2^*	+	Cd	14795	Fahey, 79
N_2^*	+	Sr	14795	Fahey, 79
N_2^*	+	Zn	14795	Fahey, 79
N_2^*	+	CO	5401	Golde, 72
Na_2^*	+	K	9120	Kopeikina, 76
Na_2^*	+	Na	9120	Kopeikina, 76

REFERENCE

O_2^*	+	HNO	14053	Ishiwata, 78
SF_6	+	Li	13151	Roeder, 78
– –			10203	Baylis, 77
			10247	Opila, 75
			15006	Callear, 78
			15165	Koski, 75

ELECTRONIC EXCITATION THEORETICAL

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Ar	+	Ar	7679	Brenot, 75
Ar	+	Ar^{+1}	13528	Johnson, 70
Ar	+	B	9636	Malvern, 77
Ar	+	Cs	12462	Nikitin, 71
			13295	Petrashen, 75
			13296	Petrashen, 75
Ar	+	H	13673	Levy II, 70
			15335	Vinogradov, 71
			15420	Vinogradov, 72
Ar	+	He	13543	Levy II, 70
Ar	+	K	12590	Andresen, 74
			13235	Roueff, 75
Ar	+	Na	9522	Gersten, 76
			9784	Saxon, 77
			13539	Masnou-Seeuws, 70
Ar	+	Na^*	9117	Olson, 77
Ar	+	Rb	13295	Petrashen, 75
			13296	Petrashen, 75
Ar	+	Rb^*	13562	Hidalgo, 72
			14731	Matsuzawa, 79
Ar	+	Sr^{+1}	10807	Bobashev, 77
Ar^{+1}	+	Ar	13633	Sidis, 75
Br	+	H_2	10288	Zimmerman, 74
C^{+1}	+	H	9093	Launay, 77
Cl	+	Xe	14642	Becker, 79
Cs	+	H	15420	Vinogradov, 72
Cs	+	H^{+1}	8007	Olson, 76
Cs^*	+	Ar	8988	Pascale, 76
Cs^*	+	Cs	12472	Zembekov, 71
Cs^*	+	He	8988	Pascale, 76
Cs^*	+	Xe	8988	Pascale, 76
D^*	+	H	9517	Gay, 77
			13953	Harel, 79
F	+	Ar	14642	Becker, 79
F	+	Xe	14642	Becker, 79
F	+	H_2	10288	Zimmerman, 74
H	+	C	9207	Launay, 77

H	+	C^{+1}	7667	Bazet, 75
			7844	Harel, 75
			10230	Harel, 78
			10276	Chu, 75
			13713	Weisheit, 71
H	+	Cs	15420	Vinogradov, 72
H	+	D	9002	Kohmoto, 76
H	+	H	13201	Flannery, 70
H	+	H	13205	Flannery, 70
			13403	Shields, 74
			13414	Flannery, 74
			13545	Bottcher, 70
			13563	Flannery, 72
			13703	Ritchie, 71
			15235	Flannery, 73
H	+	H^*	14061	Flannery, 79
H	+	H^{+1}	15137	Ponce, 79
H	+	K	15420	Vinogradov, 72
H	+	O	9207	Launay, 77
H	+	Rb	15420	Vinogradov, 72
H^*	+	D	9517	Gay, 77
H^*	+	H	6319	Capitelli, 74
			13259	Smirnov, 71
			13953	Harel, 79
H^*	+	He	13290	Smirnov, 74
			13593	Bell, 73
H^{+1}	+	Ar	6698	Albat, 75
H^{+1}	+	Be	6373	Banyard, 74
H^{+1}	+	Ca^{+14}	9155	Faucher, 77
H^{+1}	+	Cs	15180	Mathur, 71
H^{+1}	+	F	10425	Preston, 74
H^{+1}	+	Fe^{+11}	11777	Landman, 78
H^{+1}	+	Fe^{+12}	13663	Faucher, 75
			14406	Flower, 73
H^{+1}	+	Fe^{+20}	9155	Faucher, 77
H^{+1}	+	H	7161	Sil, 75
			7893	Lodge, 76
			11184	Rapp, 72
			12485	Bates, 71
			13195	Rosenthal, 71
			13206	Gaussorgues, 70
			13222	Chen, 72
			13380	Chen, 73
			13383	Storm, 73
			13518	Gaussorgues, 75
			13523	Catlow, 70
			13541	Bates, 70
			13552	Gaussorgues, 71
			13553	Ghosh, 71
			13618	Flannery, 74
			13657	Kubach, 75
			13659	Shakeshaft, 75
H^{+1}	+	H	13721	Franco, 71
			13739	Rapp, 72
			13752	Delos, 72
			14834	Ellis, 73
			14837	Knudson, 70
			15026	Crothers, 79
			15031	Crothers, 79
			15137	Ponce, 79
			15185	Tripathi, 71
			15198	Felden, 75
H^{+1}	+	H^*	9525	Toshima, 77
			9819	Toshima, 77
H^{+1}	+	He	8942	Shevelko, 76
			12668	Issa, 77
			13607	Mathur, 73
			14810	Ojha, 79
H^{+1}	+	He^{+1}	15130	Potter, 79
			15350	Demkov, 74
H^{+1}	+	Li	15180	Mathur, 71
H^{+1}	+	Na	15180	Mathur, 71
H^{+1}	+	Ne	5906	Albat, 74
			6460	Seddon, 74
H^{+1}	+	Ni^{+14}	9155	Faucher, 77
He	+	B	9636	Malvern, 77
He	+	Be^{+1}	7952	Nielsen, 75
			9769	Nielsen, 77
			10778	Nielsen, 77
He	+	C^{+1}	7621	Toshima, 75
He	+	Cs	12462	Nikitin, 71
He	+	Cs^{+1}	15330	Devdariani, 71
He	+	H	13417	Peacher, 74
			13594	Bell, 73
			13617	Bell, 74
			15235	Flannery, 73
He	+	H^*	11327	Slocomb, 71
He	+	He	6965	Olson, 75
			7202	Banyard, 75
			8900	Gauyacq, 76
			13543	Levy II, 70
He	+	He^*	8009	Cohen, 76
			13728	Evans, 71
He	+	He^{+1}	9180	Bell, 77
He	+	K	13235	Roueff, 75
He	+	Li	7952	Nielsen, 75
			10464	Reid, 78
			10778	Nielsen, 77
			13798	Nielsen, 78
He	+	Mg	13662	Bottcher, 75
He	+	Mg^{+1}	9769	Nielsen, 77
			13662	Bottcher, 75
He	+	Na	9522	Gersten, 76

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He	+	Na	12435	Reid, 70
			13235	Roueff, 75
			13539	Masnou-Seeuws, 70
			13601	Reid, 73
He	+	Na^*	9117	Olson, 77
He	+	Ne	14615	Babamov, 78
He	+	O^{+1}	10958	Augustin, 73
He	+	Rb	13235	Roueff, 75
He	+	Rb^*	13562	Hidalgo, 72
			14731	Matsuzawa, 79
He	+	H_2	10652	Shimoni, 77
He	+	N_2^{+1}	9787	Kelley, 77
			14549	Kelley, 79
He^*	+	He	7264	Shipsey, 75
			7266	Steets, 75
			8009	Cohen, 76
			13422	Hickman, 74
			13801	Jordan, 78
			15163	Kodaira, 71
He^*	+	Ne	10685	Oesterlin, 77
			14656	Haberland, 79
He^{+1}	+	D	7725	Aubert, 76
He^{+1}	+	H	7766	Fayeton, 76
			7956	Fayeton, 75
			13558	McCarroll, 71
			13618	Flannery, 74
			13738	Chen, 72
			15131	Franco, 79
He^{+1}	+	He	7955	Stern, 75
			9095	Piacentini, 77
			9614	Stern, 77
			11117	Stern, 78
			12976	Ojha, 78
			13381	Evans, 73
			13747	Olson, 72
			15033	Ojha, 79
He^{+1}	+	Ne	8831	Cho, 76
			9882	Laing, 77
			10315	Cho, 74
			13367	Eu, 73
			13371	Penner, 73
			13404	Guerin, 74
			13559	Sidis, 71
			13587	Gaussorgues, 73
			13751	Nikitin, 72
			15328	Ovchinnikova, 71
			15345	Elisenkov, 73
He^{+2}	+	H	7874	Gaussorgues, 75
			10927	Rapp, 73
			13606	Msezane, 73
He^{+2}	+	He	13926	Koike, 78
			14737	Koike, 79
K	+	H	15420	Vinogradov, 72

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K	+	He	9094	Roueff, 77
K	+	K	13626	Kruger, 74
K	+	Br_2	11793	Evers, 78
K	+	N_2	14898	Andreev, 72
K^*	+	Rb	10408	Chow Chiu, 74
Kr	+	Cs	13295	Petrashen, 75
			13296	Petrashen, 75
Kr	+	H	13673	Levy II, 70
			15420	Vinogradov, 72
Kr	+	He	13543	Levy II, 70
Kr	+	Na	13539	Masnou-Seeuws, 70
Kr	+	Rb	13295	Petrashen, 75
			13296	Petrashen, 75
Kr	+	Rb^*	13562	Hidalgo, 72
Li^{+1}	+	Ar	13602	Barat, 73
Li^{+1}	+	He	9790	Sidis, 77
			13570	McCarroll, 72
			13602	Barat, 73
Li^{+1}	+	Li^*	10562	Chang, 73
Li^{+1}	+	Na	8159	Habitz, 75
			13429	Melius, 74
Li^{+1}	+	Ne	13602	Barat, 73
Mg^{+12}	+	Mg^{+11}	12253	Skobelev, 78
Na	+	Ar	10665	Saxon, 77
Na	+	Cs	13691	Chang, 70
Na	+	H	15420	Vinogradov, 72
Na	+	Ne	15029	Courbin-Gaussorg, 79
Na	+	Rb	14838	Dashevskaya, 70
Na^*	+	He	8988	Pascale, 76
			9629	Gaussorgues, 77
Na^*	+	Kr	9629	Gaussorgues, 77
Na^{+1}	+	Li	13429	Melius, 74
Na^{+1}	+	Ne	9911	Bobashev, 76
			10805	Bobashev, 77
			15333	Ankudinov, 71
Ne	+	B	9636	Malvern, 77
Ne	+	Be^{+1}	7952	Nielsen, 75
			9769	Nielsen, 77
			14196	Olsen, 79
			14203	Andersen, 79
Ne	+	H	13673	Levy II, 70
			15420	Vinogradov, 72
Ne	+	He	13543	Levy II, 70
Ne	+	Li	7952	Nielsen, 75
Ne	+	Mg^{+1}	9769	Nielsen, 77
Ne	+	Na	8995	Bottcher, 76
			11756	Pedersen, 78
			13539	Masnou-Seeuws, 70

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Ne	+	Na	15029	Courbin-Gaussorg, 79
Ne	+	Na*	9117	Olson, 77
Ne	+	Ne	7679	Brenot, 75
			10222	Gauyacq, 78
		Ne	10784	Gauyacq, 77
			11245	Fritsch, 78
Ne	+	Ne*	7242	Kruglevsky, 74
Ne	+	Ne^{+1}	14358	Fritsch, 78
			14667	Yagisawa, 79
Ne	+	Rb*	13562	Hidalgo, 72
Ne*	+	Ne	13442	Cohen, 75
Ne^{+1}	+	N	15000	Bierman, 73
O	+	C	13409	Bogan Jr., 74
O	+	O	12546	Olson, 73
			13409	Bogan Jr., 74
O*	+	O	7640	Krauss, 75
Rb	+	H	15420	Vinogradov, 72
Rb*	+	Ar	8988	Pascale, 76
Rb*	+	He	8988	Pascale, 76
Rb*	+	Xe	8988	Pascale, 76
T*	+	H	13953	Harel, 79
Xe	+	Cs	12462	Nikitin, 71
			13295	Petrashen, 75
			13296	Petrashen, 75
Xe	+	F	10425	Preston, 74
Xe	+	H	15420	Vinogradov, 72
Xe	+	Na	13539	Masnou-Seeuws, 70
Xe	+	Rb	13295	Petrashen, 75
			13296	Petrashen, 75
Xe*	+	H_2O	13354	Matsuzawa, 78
Xe*	+	SO_2	13354	Matsuzawa, 78
Zn*	+	NO	14277	Breckenridge, 79
CO	+	Na*	9641	Gallagher, 77
Cs_2	+	Cs_2	13540	Dickinson, 70
HCl	+	Xe*	14731	Matsuzawa, 79
			15057	Matsuzawa, 79
H_2	+	Br	7986	Laing, 75
H_2	+	C^{+1}	7621	Toshima, 75
			9279	Flower, 77
			10276	Chu, 75
			10460	Flower, 77
			10666	Riera, 77
H_2	+	F	7986	Laing, 75
			9776	Rebentrost, 77
H_2	+	H_2CO	7665	Evans II, 75
K_2	+	K_2	13540	Dickinson, 70
N_2	+	K	15109	Andreev, 74
N_2	+	Na*	9641	Gallagher, 77

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N_2	+	N_2	9527	Ravodina, 76
N_2	+	N_2^{+1}	9613	Anketell, 77
N_2^*	+	CO	14812	Deperasinska, 79
NO*	+	NO	11332	Gordon, 71
Na_2	+	Na_2	13540	Dickinson, 70
RbCs	+	RbCs	13540	Dickinson, 70
Rb_2	+	Rb_2	13540	Dickinson, 70
H_2O	+	Xe*	15057	Matsuzawa, 79
H_2S	+	Xe*	15057	Matsuzawa, 79
NH_3	+	Xe*	14729	Rundel, 79
			15057	Matsuzawa, 79

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H	+	H	13397	Flannery, 73
H^{+1}	+	H	13382	Storm, 73
			13384	Storm, 73
			13385	Storm, 73
			13397	Flannery, 73
H^{+1}	+	He	13924	Sur, 78
			14652	Mukherjee, 79
He*	+	He	15360	Kereselidze, 75
Hg*	+	Cd	14966	Cheron, 75
K	+	K	12230	Nikitin, 77
Na	+	K	12230	Nikitin, 77
Na^{+1}	+	Ne	14666	Lavrov, 79
–		–	7998	Simons, 76
			8019	Macek, 71
			8191	Thomas, 76
			9183	Gurevich, 76
			9216	Laing, 77
			9549	McCarroll, 74
			9761	De Vries, 77
			9821	Takayanagi, 77
			9990	Brandt, 73
			9993	Lasaga, 77
			10172	Gislason, 77
			10382	Miller, 77
			10470	Omont, 77
			10846	Nielsen, 77
			11078	Miller, 72
			11515	Rabitz, 78
			11820	Arora, 78
			12491	Voltz, 71
			12630	Baer, 75
			13353	Ostrovskii, 78
			13517	Flannery, 70
			13555	Percival, 71
			13556	Percival, 71
			14322	Gauyacq, 77
			14323	Bobashev, 77
			14427	Taulbjerg, 77
			14503	Kunc, 79
			14800	Son, 78

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– –			14880	Bates,	71
			14887	Massey,	72
			14979	Russek,	70
			15183	Sheldon,	71
			15253	Bogdanov,	72
			15257	Bates,	70
			15358	Gurevich,	76
			15365	Nakamura,	73

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HCl	+	SF_6	14038	Roodhart,	79
Molecules			14035	Quack,	77
– –			9189	Toennies,	76
			10950	Gait,	76
			15273	Weitz,	74

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Ar	+	Na_2	13582	Bergmann,	72
He	+	Na_2	13582	Bergmann,	72
Kr	+	Na_2	13582	Bergmann,	72
Ne	+	Na_2	13582	Bergmann,	72
Xe	+	Na_2	13582	Bergmann,	72
BaO	+	Ar	12033	Sakurai,	70
BaO	+	He	12033	Sakurai,	70
BaO	+	N_2	12033	Sakurai,	70
BrF	+	He	12967	Clyne,	78
CN	+	Ar	10921	Coxon,	73
			11051	Duewer,	72
CO	+	Ar	10249	Slanger,	75
			10905	Slanger,	73
CO	+	He	10905	Slanger,	73
			11900	Vikis,	78
CO	+	CO	10249	Slanger,	75
			11900	Vikis,	78
			11939	Malinauskas,	70
			12855	Yagi,	78
			14981	Kistemaker,	70
CsF	+	Ar	14516	Borkenhagen,	79
CsF	+	He	14516	Borkenhagen,	79
CsF	+	Kr	14516	Borkenhagen,	79
CsF	+	Ne	14516	Borkenhagen,	79
CsF	+	Xe	14516	Borkenhagen,	79
CsF	+	CO	14516	Borkenhagen,	79
CsF	+	N_2	14516	Borkenhagen,	79
CsF	+	CO_2	14516	Borkenhagen,	79
CsF	+	N_2O	14516	Borkenhagen,	79

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CsF	+	$CBrF_3$	14516	Borkenhagen,	79
CsF	+	CF_4	14516	Borkenhagen,	79
CsF	+	CHF_3	14516	Borkenhagen,	79
CsF	+	CH_3Br	14516	Borkenhagen,	79
CsF	+	CH_3Cl	14516	Borkenhagen,	79
CsF	+	CH_4	14516	Borkenhagen,	79
CsF	+	SF_6	14516	Borkenhagen,	79
CsF	+	C_2H_6	14516	Borkenhagen,	79
D_2	+	Na_2	13582	Bergmann,	72
F_2	+	F_2	9627	Horne,	77
HCl	+	Ar	8011	Ding,	75
HCl	+	He	8011	Ding,	75
HCl	+	Kr	8011	Ding,	75
HCl	+	HBr	8011	Ding,	75
HCl	+	HCl	8011	Ding,	75
HCl	+	HF	8011	Ding,	75
HCl	+	HI	8011	Ding,	75
HCl	+	H_2S	8011	Ding,	75
HD	+	He	12031	Akins,	70
			14983	Prangsma,	70
HD	+	Ne	12031	Akins,	70
HD	+	D_2	12031	Akins,	70
HD	+	HD	12031	Akins,	70
			14983	Prangsma,	70
HD	+	Na_2	13582	Bergmann,	72
HF	+	Ar	8011	Ding,	75
			8895	Gurev,	76
			9900	Lang,	77
HF	+	He	8895	Gurev,	76
HF	+	Xe	8895	Gurev,	76
HF	+	CO	8895	Gurev,	76
HF	+	D_2	8895	Gurev,	76
HF	+	F_2	8895	Gurev,	76
HF	+	HF	6364	Peterson,	74
			8815	Hinchen,	76
			8895	Gurev,	76
			9623	Sentman,	77
			9903	Krogh,	77
			10390	Chen,	74
HF	+	H_2	8895	Gurev,	76
HF	+	O_2	8895	Gurev,	76
HF	+	CO_2	8895	Gurev,	76
HF	+	CS_2	8895	Gurev,	76
HF	+	CCl_4	8895	Gurev,	76
H_2	+	Li^{+1}	10405	Lester Jr.,	74
H_2	+	H_2	10421	Gallagher,	74
			11038	Yoder,	72

H_2	+	H_2	15404	Boitnott, 71
H_2	+	Na_2	13582	Bergmann, 72
H_2^*	+	H_2	14995	Prangsma, 72
He_2	+	He	5406	Collins, 72
			8119	Gauthier, 76
			9620	Nakata, 77
			10139	Delpech, 77
He_2	+	He_2	15295	Callear, 70
He_2^*	+	He	11189	Collins, 72
I_2	+	He	11058	Kurzel, 72
I_2	+	Ne	11058	Kurzel, 72
I_2	+	H_2	11058	Kurzel, 72
I_2	+	I_2	6394	Paisner, 74
			12765	Jeyes, 78
I_2^*	+	Ar	11980	Kurzel, 70
I_2^*	+	He	11364	Kurzel, 71
			11980	Kurzel, 70
I_2^*	+	Kr	11980	Kurzel, 70
I_2^*	+	Ne	11364	Kurzel, 71
			11980	Kurzel, 70
I_2^*	+	Xe	11980	Kurzel, 70
I_2^*	+	H_2	11364	Kurzel, 71
			11980	Kurzel, 70
I_2^*	+	I_2	11364	Kurzel, 71
			11980	Kurzel, 70
I_2^*	+	CO_2	11980	Kurzel, 70
LiF	+	Ar	10304	Dehmer, 74
LiF	+	D_2	10304	Dehmer, 74
LiF	+	CH_4	10304	Dehmer, 74
LiH	+	Ar	9870	Wilcomb, 77
LiH	+	DCl	14519	Dagdigian, 79
LiH	+	HCl	14519	Dagdigian, 79
Li_2	+	Ar	12034	Ottinger, 70
			13921	Jeyes, 78
Li_2	+	He	13921	Jeyes, 78
Li_2	+	Li	13055	Vidal, 78
N_2	+	Ar	6624	Kistemaker, 75
			11051	Duewer, 72
			11813	Kozhukhov, 77
			11936	Setser, 70
N_2	+	He	6624	Kistemaker, 75
N_2	+	Kr	6624	Kistemaker, 75
N_2	+	Ne	6624	Kistemaker, 75
N_2	+	Xe	6624	Kistemaker, 75
N_2	+	N_2	10393	Butherus, 74
			11939	Malinauskas, 70
			14981	Kistemaker, 70
N_2	+	Na_2	13582	Bergmann, 72
N_2^{+1}	+	CO	11183	Young, 72
NO	+	NO	5619	Bass, 73
Na_2	+	Ar	10872	Drullinger, 73
			13630	Bergmann, 74
Na_2	+	He	10872	Drullinger, 73
			13630	Bergmann, 74
Na_2	+	Kr	10872	Drullinger, 73
			13630	Bergmann, 74
Na_2	+	Ne	10872	Drullinger, 73
			13630	Bergmann, 74
Na_2	+	Xe	10872	Drullinger, 73
			13630	Bergmann, 74
Na_2	+	D_2	10872	Drullinger, 73
			13630	Bergmann, 74
Na_2	+	H_2	10872	Drullinger, 73
			13630	Bergmann, 74
Na_2	+	N_2	10872	Drullinger, 73
			13630	Bergmann, 74
Na_2	+	Na_2	10910	Sinha, 73
Na_2	+	CH_4	10872	Drullinger, 73
			13630	Bergmann, 74
Na_2^*	+	He	14773	Wainger, 79
Na_2^*	+	Xe	12762	Brunner, 78
			14265	Brunner, 79
Na_2^*	+	H_2	14773	Wainger, 79
Na_2^*	+	N_2	14773	Wainger, 79
Na_2^*	+	CH_4	14773	Wainger, 79
OH^*	+	Ar	9767	Lengel, 77
OH^*	+	H_2	9767	Lengel, 77
OH^*	+	N_2	9767	Lengel, 77
O_2	+	O_2	11939	Malinauskas, 70
S_2	+	Ar	14525	Caughey, 79
S_2	+	He	14525	Caughey, 79
S_2	+	Xe	14525	Caughey, 79
S_2^*	+	Ar	12946	Caughey, 78
S_2^*	+	He	12946	Caughey, 78
S_2^*	+	Kr	12946	Caughey, 78
S_2^*	+	Ne	12946	Caughey, 78
S_2^*	+	Xe	12946	Caughey, 78
S_2^*	+	H_2	12946	Caughey, 78
S_2^*	+	N_2	12946	Caughey, 78
CO_2	+	He	6069	Jacobs, 74
			7729	Simpson, 76
CO_2	+	D_2	7729	Simpson, 76
CO_2	+	HD	7729	Simpson, 76
CO_2	+	H_2	7729	Simpson, 76
CO_2	+	N_2	6069	Jacobs, 74

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CO_2	+	CO_2	6069	Jacobs, 74
			6937	Lecuyer, 75
			11939	Malinauskas, 70
HCN	+	Ar	10907	Cohen, 73
HCN	+	He	10907	Cohen, 73
HCN	+	Xe	10907	Cohen, 73
HCN	+	HCN	10907	Cohen, 73
H_2O	+	Ar	9005	Keeton, 76
H_2O	+	H_2O	9005	Keeton, 76
H_2O	+	NH_3	11582	Herlemont, 78
H_2S	+	H_2O	14978	Bauer, 70
ICN	+	ICN	10908	Cohen, 73
NH_2	+	H	14776	Dixon, 79
NH_2	+	H_2	10244	Kroll, 75
N_2O	+	N_2O	6937	Lecuyer, 75
NO_2	+	Ar	14524	Donnelly, 79
NO_2	+	He	14524	Donnelly, 79
NO_2	+	D_2	14524	Donnelly, 79
NO_2	+	H_2	14524	Donnelly, 79
NO_2	+	N_2	14524	Donnelly, 79
NO_2	+	O_2	14524	Donnelly, 79
NO_2	+	CO_2	14524	Donnelly, 79
NO_2	+	D_2O	14524	Donnelly, 79
NO_2	+	H_2O	14524	Donnelly, 79
NO_2	+	NO_2	14524	Donnelly, 79
NO_2	+	ND_3	14524	Donnelly, 79
NO_2	+	NH_3	14524	Donnelly, 79
NO_2	+	SF_6	14524	Donnelly, 79
OCS	+	He	7655	Casleton, 75
			8883	Retallack, 76
			10280	Mader, 75
			10877	Wang, 73
OCS	+	HCl	7655	Casleton, 75
OCS	+	H_2	8883	Retallack, 76
OCS	+	N_2	7655	Casleton, 75
			10877	Wang, 73
OCS	+	OCS	7655	Casleton, 75
			7680	Coy, 75
			8883	Retallack, 76
			10280	Mader, 75
			10307	Kukolich, 74
			10406	Brown, 74
			10877	Wang, 73
			10992	Brittain, 73
OCS	+	NH_3	7655	Casleton, 75
			10877	Wang, 73
OCS	+	CHF_3	7655	Casleton, 75
			10877	Wang, 73

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OCS	+	CH_3F	7655	Casleton, 75
			10280	Mader, 75
			10877	Wang, 73
OCS	+	CH_3OH	8883	Retallack, 76
SO_2	+	SO_2	12084	Bass, 71
BF_3	+	BF_3	12599	Raw, 74
H_2CO	+	Ar	6849	Foreman, 75
H_2CO	+	He	6849	Foreman, 75
			12608	Foreman, 74
H_2CO	+	HCl	6849	Foreman, 75
H_2CO	+	H_2	6849	Foreman, 75
			12608	Foreman, 74
H_2CO	+	N_2	6849	Foreman, 75
H_2CO	+	CO_2	6849	Foreman, 75
H_2CO	+	NH_3	6849	Foreman, 75
H_2CO	+	CHF_3	6849	Foreman, 75
			12608	Foreman, 74
H_2CO	+	CH_3F	6849	Foreman, 75
NH_3	+	He	10877	Wang, 73
			11405	Morita, 78
NH_3	+	Xe^*	11505	Smith, 78
NH_3	+	H_2	11405	Morita, 78
NH_3	+	N_2	10877	Wang, 73
NH_3	+	OCS	10877	Wang, 73
NH_3	+	NH_3	5768	Levy, 73
			10877	Wang, 73
			10992	Brittain, 73
			11044	Bass, 72
			12580	Kano, 74
NH_3	+	CHF_3	10877	Wang, 73
NH_3	+	CH_3F	10877	Wang, 73
CD_4	+	Ar	7333	Kistemaker, 74
CD_4	+	He	7333	Kistemaker, 74
CD_4	+	Ne	7333	Kistemaker, 74
CD_4	+	Xe	7333	Kistemaker, 74
CD_4	+	CD_4	7333	Kistemaker, 74
			10403	Siebert, 74
			12503	Cukrowski, 72
CF_4	+	CF_4	12503	Cukrowski, 72
			12599	Raw, 74
CH_3Cl	+	CH_3Cl	13708	Frenkel, 71
CH_4	+	Ar	12503	Cukrowski, 72
CH_4	+	He	12503	Cukrowski, 72
CH_4	+	Xe	12503	Cukrowski, 72
CH_4	+	Na_2	13582	Bergmann, 72
CH_4	+	CH_4	12503	Cukrowski, 72
CH_4^*	+	Ar	14994	Kistemaker, 72
CH_4^*	+	He	14994	Kistemaker, 72

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$CH_4^{\cdot}$	+	Xe	14994	Kistemaker,	72
$CH_4^{\cdot}$	+	CH_4	14994	Kistemaker,	72
SiF_4	+	SiF_4	12599	Raw,	74
$C_2H_2F_2$	+	$C_2H_2F_2$	10908	Cohen,	73
CH_3OH	+	He	6721	Lees,	74
CH_3OH	+	H_2	6721	Lees,	74
CH_3OH	+	CH_3OH	6721	Lees,	74
CHOCHO	+	CHOCHO	10219	Rordorf,	78
SF_6	+	SF_6	12503	Cukrowski,	72
			12599	Raw,	74
C_2H_5OH	+	He	11139	Seibt,	72
C_2H_5OH	+	C_2H_5OH	11139	Seibt,	72
C_6H_6	+	Ar	11919	Coveleskie,	78
C_6H_6	+	C_6H_6	11919	Coveleskie,	78

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HCl	+	HCl	14038	Roodhart,	79
HF	+	He	8151	Vasilev,	76
HF	+	Xe	8151	Vasilev,	76
HF	+	D_2	8151	Vasilev,	76
HF	+	H_2	8151	Vasilev,	76
I_2	+	Ar	14546	McClelland,	79
I_2	+	He	14546	McClelland,	79
I_2	+	Ne	14546	McClelland,	79
I_2	+	CO	14546	McClelland,	79
I_2	+	D_2	14546	McClelland,	79
I_2	+	H_2	14546	McClelland,	79
I_2	+	I_2	8841	Sakurai,	76
I_2	+	N_2	14546	McClelland,	79
I_2	+	CF_4	14546	McClelland,	79
I_2	+	CH_4	14546	McClelland,	79
I_2	+	C_2F_6	14546	McClelland,	79
I_2	+	C_2H_6	14546	McClelland,	79
I_2	+	C_3H_8	14546	McClelland,	79
CO_2	+	Ne	8307	Bischel,	76
CO_2	+	H_2	8307	Bischel,	76
CO_2	+	CO_2	8307	Bischel,	76
CO_2	+	CH_2F	8307	Bischel,	76
CO_2	+	NH_3	8307	Bischel,	76
OCS	+	Ar	13147	Meerts,	78
NH_3	+	NH_3	9078	Morita,	77
CHOCHO	+	CHOCHO	14240	Ten Brink,	79
- -			9545	Bischel,	76
			11066	Brown,	72
			11202	Bauer,	72
			12868	Krishnaji	78

REFERENCE

- -			15006	Callear,	78
			15276	Stepanov,	71

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- -			14293	Dickinson,	79
			15272	Secrest,	73

ORIGINAL DATA

Ar	+	HCl	12190	Green,	78
H^{+1}	+	HD^{+1}	14937	Watanabe,	70
He	+	D_2	11141	Heukels,	72
He	+	HCl	12190	Green,	78
He	+	H_2	9589	Augustin,	77
			10309	Rabitz,	74
			14291	Balint-Kurti,	79
			15125	Augustin,	79
He	+	HT	11141	Heukels,	72
He	+	Li_2	12543	Poppe,	73
He	+	HCN	12190	Green,	78
K^{+1}	+	HD^{+1}	14937	Watanabe,	70
Li^{+1}	+	HD^{+1}	14937	Watanabe,	70
Na^{+1}	+	HD^{+1}	14937	Watanabe,	70
$Xe^{\cdot}$	+	H_2O	13354	Matsuzawa,	78
$Xe^{\cdot}$	+	SO_2	13354	Matsuzawa,	78
CO	+	H	15015	Hoffman,	79
CO	+	He	12764	Green,	78
			14072	Thomas,	79
			14248	Bowman,	79
CO	+	CO	8423	Vargin,	75
			12146	Annis,	71
CS	+	H_2	12764	Green,	78
Cl_2	+	Cl_2	12239	Nyeland,	78
CsF	+	Ar	10215	Fitz,	77
			11506	Dickinson,	78
CsF	+	Kr	11506	Dickinson,	78
CsF	+	Ne	11506	Dickinson,	78
CsF	+	Xe	11506	Dickinson,	78
DCl	+	DCl	10313	Agrawal,	74
			10688	Verter,	73
			11931	Zeleznik,	70
			12144	Zeleznik,	71
DCl	+	HCl	10688	Verter,	73
D_2	+	Ar	6657	Agrawal,	75
			6814	Agrawal,	75
D_2	+	He	6657	Agrawal,	75
			6814	Agrawal,	75
			8819	Alexander,	76
D_2	+	Ne	6657	Agrawal,	75

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D_2	+	Ne	6814	Agrawal, 75
D_2	+	D_2	9071	Billing, 77
			9230	Ramaswamy, 77
			14993	Moraal, 72
D_2^{+1}	+	He	13054	Poppe, 78
DF	+	DF	11931	Zeleznik, 70
			14070	Wilkins, 79
HBr	+	HBr	10313	Agrawal, 74
			10688	Verter, 73
			11931	Zeleznik, 70
HCl	+	Ar	9175	Tarr, 77
			9862	Polanyi, 77
			10299	Verter, 74
			10982	Neilsen, 73
			11187	Sorensen, 72
			11425	Polanyi, 78
HCl	+	He	8423	Vargin, 75
			10186	Monchick, 77
			11425	Polanyi, 78
			12748	De Pristo, 78
			12947	Monchick, 78
			15015	Hoffman, 79
HCl	+	Xe	10299	Verter, 74
HCl	+	DCl	10688	Verter, 73
HCl	+	HBr	14073	Turfa, 79
HCl	+	HCl	8423	Vargin, 75
			10299	Verter, 74
			10313	Agrawal, 74
			10688	Verter, 73
			11600	Bhattacharyya, 78
			11931	Zeleznik, 70
			12144	Zeleznik, 71
			14073	Turfa, 79
			14544	Polanyi, 79
			14617	Koura, 79
HCl	+	HF	14073	Turfa, 79
HCl	+	H_2	7166	Procaccia, 75
			8421	Koura, 76
			11026	Polanyi, 72
HCl	+	HI	14073	Turfa, 79
HCl	+	LiH	14609	Alexander, 79
HD	+	Ar	8259	Agrawal, 76
HD	+	He	8259	Agrawal, 76
			11161	Gelb, 72
			14945	Itikawa, 72
HD	+	Ne	8259	Agrawal, 76
			11161	Gelb, 72
HD	+	D_2	11130	Van De Ree, 72
HD	+	HD	14513	Gelb, 79
			14993	Moraal, 72
HD	+	H_2	14513	Gelb, 79

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HD^{+1}	+	He	12758	Ray, 78
HD^{+1}	+	HD^{+1}	9640	Bhattacharyya, 77
HF	+	Ar	8090	Lebed, 75
HF	+	He	8090	Lebed, 75
			11161	Gelb, 72
HF	+	Kr	12748	De Pristo, 78
HF	+	Xe	8090	Lebed, 75
			12748	De Pristo, 78
HF	+	F_2	11610	Vasilev, 76
HF	+	HF	9107	De Pristo, 77
			10136	Wilkins, 77
			10313	Agrawal, 74
			10688	Verter, 73
			11610	Vasilev, 76
			11931	Zeleznik, 70
			14617	Koura, 79
HF	+	H_2	8090	Lebed, 75
			11610	Vasilev, 76
H_2	+	Ar	6657	Agrawal, 75
			6814	Agrawal, 75
			12497	Pedersen, 71
H_2	+	F	9079	De Vries, 77
H_2	+	F^*	9776	Rebentrost, 77
H_2	+	H	7236	McCann, 75
			7798	McCann, 75
			9891	Pfeffer, 77
			14085	Schatz, 79
			14702	Choi, 79
H_2	+	He	6657	Agrawal, 75
			6718	Alexander, 75
			6814	Agrawal, 75
			7324	Alexander, 74
			7761	Gelb, 76
			7871	Alexander, 76
			8368	Gerber, 76
			8819	Alexander, 76
			8888	Alper, 76
			9080	Goldflam, 77
			9271	Alexander, 77
			10226	Tarr, 78
			10227	Tarr, 78
			10264	Rabitz, 75
			10990	Shafer, 73
			11161	Gelb, 72
			11187	Sorensen, 72
			13529	Barua, 70
			13968	Lin, 79
			13988	Lin, 79
			14492	Eno, 79
			14779	Dove, 79
H_2	+	Li^{+1}	8114	Billing, 76
H_2	+	Ne	6657	Agrawal, 75
			6814	Agrawal, 75

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H_2	+	Ne	11161	Gelb, 72
H_2	+	HD	14513	Gelb, 79
H_2	+	H_2	7190	Rabitz, 75
			7370	Alper, 75
			9071	Billing, 77
			9210	Ramaswamy, 77
			9230	Ramaswamy, 77
			10407	Zarur, 74
			10420	Gallagher, 74
			11592	Heil, 78
			12620	Gelb, 75
			13529	Barua, 70
			14993	Moraal, 72
H_2	+	N_2	13529	Barua, 70
H_2	+	CO_2	13529	Barua, 70
H_2^{+1}	+	He	13054	Poppe, 78
HT	+	D_2	11130	Van De Ree, 72
I_2	+	He	9196	Bowman, 77
			10418	Rubinson, 74
I_2	+	Kr	10418	Rubinson, 74
I_2	+	Ne	10418	Rubinson, 74
I_2	+	I_2	12765	Jeyes, 78
I_2^*	+	He	9209	Bowman, 77
I_2^*	+	I_2	11290	Kato, 78
LiH	+	Ar	13961	Bhattacharyya, 79
LiH	+	DCl	14519	Dagdigian, 79
			14609	Alexander, 79
LiH	+	HCl	14519	Dagdigian, 79
			14609	Alexander, 79
N_2	+	Ar	7287	Mehrotra, 75
			7288	Pattengill, 75
			8991	Choi, 76
			9200	Pack, 77
			9272	Pattengill, 77
			11158	Olmsted, 72
			11159	Russell, 72
			11371	Pattengill, 71
			12534	Gelb, 72
			13148	Eno, 78
			14748	Nyeland, 79
			15202	Sanctuary, 79
N_2	+	Li	13514	Zaritsky, 78
N_2	+	Li^{+1}	13977	Billing, 79
N_2	+	N_2	7629	Itikawa, 75
			8013	Gerasimov, 75
			9859	Li, 77
			12020	Brau, 70
			12146	Annis, 71
			12239	Nyeland, 78
			13529	Barua, 70
			15226	Lukyanov, 72
			15403	Deiwert, 75

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N_2	+	N_2	15406	Lordi, 70
N_2	+	CO_2	13529	Barua, 70
N_2^*	+	Ar	7988	Garetz, 76
N_2^*	+	He	7988	Garetz, 76
N_2^*	+	SF_6	7988	Garetz, 76
N_2^{+1}	+	N_2	14893	Mnatsakanyan, 70
NO	+	CO	13529	Barua, 70
Na_2	+	Ar	12504	Bergmann, 72
Na_2	+	He	12504	Bergmann, 72
Na_2	+	Kr	12504	Bergmann, 72
Na_2	+	Ne	12504	Bergmann, 72
Na_2	+	Xe	12504	Bergmann, 72
			14106	Ramaswamy, 79
Na_2	+	D_2	12504	Bergmann, 72
Na_2	+	H_2	12504	Bergmann, 72
Na_2	+	N_2	12504	Bergmann, 72
Na_2	+	CH_4	12504	Bergmann, 72
O_2	+	Ar	11187	Sorensen, 72
			15225	Ivanov, 71
O_2	+	O_2	10420	Gallagher, 74
			12020	Brau, 70
			12146	Annis, 71
			13529	Barua, 70
			15406	Lordi, 70
BrCN	+	BrCN	10688	Verter, 73
CO_2	+	Ar	9081	Preston, 77
			12260	Preston, 78
			13529	Barua, 70
CO_2	+	He	9200	Pack, 77
			12260	Preston, 78
CO_2	+	CO_2	9859	Li, 77
			10420	Gallagher, 74
			12146	Annis, 71
			14921	Jacobs, 74
ClCN	+	ClCN	10688	Verter, 73
DCN	+	DCN	11152	Prakash, 72
D_2O	+	D_2O	11931	Zeleznik, 70
HCN	+	Ar	10299	Verter, 74
HCN	+	Xe	10299	Verter, 74
HCN	+	HCN	10299	Verter, 74
			10688	Verter, 73
			11152	Prakash, 72
			11931	Zeleznik, 70
			11947	Rabitz, 70
H_2O	+	H_2O	10313	Agrawal, 74
			11931	Zeleznik, 70
H_2S	+	H_2S	10313	Agrawal, 74
			11931	Zeleznik, 70
ICN	+	ICN	11947	Rabitz, 70

ORIGINAL DATA

NH_2	+	H	14776	Dixon, 79
N_2H^{+1}	+	He	7666	Green, 75
OCS	+	Ar	10243	Liu, 75
			10299	Verter, 74
			13923	Green, 78
OCS	+	He	10243	Liu, 75
			13923	Green, 78
OCS	+	Xe	10299	Verter, 74
OCS	+	HCl	10299	Verter, 74
OCS	+	H_2	12764	Green, 78
OCS	+	OCS	10265	Mehrotra, 75
			10299	Verter, 74
			10688	Verter, 73
SO_2	+	SO_2	11931	Zeleznik, 70
HDCO	+	HDCO	11152	Prakash, 72
H_2CO	+	He	7012	Garrison, 75
			8422	Garrison, 76
			12008	Green, 78
H_2CO	+	HCl	6849	Foreman, 75
H_2CO	+	H_2	6849	Foreman, 75
H_2CO	+	N_2	6849	Foreman, 75
H_2CO	+	CO_2	6849	Foreman, 75
H_2CO	+	H_2CO	11152	Prakash, 72
H_2CO	+	NH_3	6849	Foreman, 75
H_2CO	+	CHF_3	6849	Foreman, 75
H_2CO	+	CH_3F	6849	Foreman, 75
ND_3	+	ND_3	11931	Zeleznik, 70
NH_3	+	$Xe^{\bullet}$	14729	Rundel, 79
NH_3	+	D_2	10409	Prakash, 74
NH_3	+	HD	10409	Prakash, 74
NH_3	+	H_2	10409	Prakash, 74
NH_3	+	N_2	10409	Prakash, 74
NH_3	+	O_2	10409	Prakash, 74
NH_3	+	NH_3	10313	Agrawal, 74
			10409	Prakash, 74
			11931	Zeleznik, 70
C_2HCN	+	He	12764	Green, 78
C_2H_2O	+	C_2H_2O	11152	Prakash, 72
$CHCl_3$	+	$CHCl_3$	11931	Zeleznik, 70
CH_3Cl	+	CH_3Cl	11931	Zeleznik, 70
CH_4	+	CH_4	10420	Gallagher, 74
CH_3OH	+	CH_3OH	11931	Zeleznik, 70

REFERENCE

HBr	+	Ne	14899	Safaryan, 72
– –			7363	Bernstein, 75
			8021	Penner, 75
			8094	Gerasimov, 75
			8129	Nyeland, 76
			8130	Hopf, 76
			8133	Bartis, 76
			8827	Pilling, 76
			8931	Ficocelli Varracc7
			9601	Yau, 77
			9915	Schrepp, 77
			10153	Curtiss, 77
			10321	Liu, 75
			10334	Pickett, 74
			10435	Pack, 74
			10588	Eastes, 73
			10903	St. Pierre, 73
			10997	Neilsen, 73
			11067	Fowler, 72
			11211	St. Pierre, 72
			11380	Cross Jr., 71
			11392	Olmsted, 71
			11393	Pattengill, 71
			11946	Rabitz, 70
			11959	Kelley, 70
			12065	Roberts, 70
			12089	Hayes, 71
			12511	Pack, 72
			12628	Bottcher, 75
			12852	Lebed, 77
			12853	Herrick, 78
			12862	Borman, 77
			13435	Englot, 74
			14065	Pritchard, 79
			14235	Itikawa, 78
			14300	Tarr, 78
			14775	Dixon, 79
			14804	Feldmann, 79
			14964	Gay, 74
			14985	Bjerre, 71
			15073	Bhattacharyya, 79
			15232	Cukrowski, 75
			15234	Cukrowski, 73
			15338	Podlubnyi, 72
			15437	Lester Jr., 70

VIBRATIONAL RELAXATION EXPERIMENTAL

REVIEW

CO	+	O	8128	Smith, 76
CO			15162	Taylor, 74
DCl			14032	Smith, 77
DCl	+	Br	8128	Smith, 76
DCl	+	Cl	8128	Smith, 76
DCl	+	O	8128	Smith, 76
DF			14032	Smith, 77
DF	+	Cl	8128	Smith, 76
DF	+	F	8128	Smith, 76

REVIEW

HBr			14032	Smith, 77
HCl			14032	Smith, 77
HCl	+	Br	8128	Smith, 76
HCl	+	Cl	8128	Smith, 76
HCl	+	O	8128	Smith, 76
HF			14032	Smith, 77
HF	+	Cl	8128	Smith, 76
HF	+	F	8128	Smith, 76
HF	+	O	8128	Smith, 76
H_2			14032	Smith, 77
N_2	+	He	5622	Taylor, 69
N_2	+	O	8128	Smith, 76
N_2	+	H_2	5622	Taylor, 69
N_2	+	O_2	5622	Taylor, 69
N_2	+	H_2O	5622	Taylor, 69
N_2			15162	Taylor, 74
NO			15162	Taylor, 74
OH			15162	Taylor, 74
O_2	+	O	8128	Smith, 76
O_2	+	N_2	5622	Taylor, 69
O_2			15162	Taylor, 74
CO_2	+	He	5622	Taylor, 69
CO_2	+	H_2	5622	Taylor, 69
CO_2	+	N_2	5622	Taylor, 69
CO_2	+	CO_2	5622	Taylor, 69
CO_2	+	H_2O	5622	Taylor, 69
CO_2			10210	Losev, 76
			15162	Taylor, 74
H_2O	+	H_2O	5622	Taylor, 69
H_2O			15162	Taylor, 74
O_3			15162	Taylor, 74
Molecules			14035	Quack, 77
- -			8001	Ormonde, 75
			9189	Toennies, 76
			10950	Gait. 76
			15010	Bailey, 78
			15164	Amme, 75
			15273	Weitz, 74
			15450	Moore, 73

ORIGINAL DATA

Ar	+	Na_2	13582	Bergmann, 72
He	+	Na_2	13582	Bergmann, 72
Kr	+	Na_2	13582	Bergmann, 72
Na	+	N_2	9612	Eremin, 77
Ne	+	Na_2	13582	Bergmann, 72
BaO	+	Ar	9771	Edelstein, 77

ORIGINAL DATA

BaO	+	Ar	12033	Sakurai, 70
BaO	+	He	12033	Sakurai, 70
BaO	+	N_2	12033	Sakurai, 70
Br_2	+	Ar	10926	Clarke, 73
			15320	Generalov, 70
Br_2	+	He	10926	Clarke, 73
			15320	Generalov, 70
Br_2	+	Ne	15320	Generalov, 70
Br_2	+	Xe	10926	Clarke, 73
			15320	Generalov, 70
Br_2	+	Br_2	7740	McAfee Jr., 76
			12105	Capelle, 71
BrF	+	BrF	12967	Clyne, 78
CN	+	Ar	7335	Washida, 75
CN^*	+	Ar	8149	Tereshchenko, 75
CN^*	+	He	8149	Tereshchenko, 75
CN^*	+	Ne	8149	Tereshchenko, 75
CN^*	+	CO	8149	Tereshchenko, 75
CN^*	+	H_2	8149	Tereshchenko, 75
CN^*	+	N_2	8149	Tereshchenko, 75
CN^*	+	CH_4	8149	Tereshchenko, 75
CO	+	Ar	5566	Center, 73
			5854	Comes, 72
			6060	Fink, 74
			6088	Green, 73
			6640	Melton, 75
			8206	Melton, 76
			10888	Fontijn, 73
			10905	Slanger, 73
			10963	Slanger, 73
			11342	Just, 71
			11353	Young, 71
			11957	McLaren, 70
			12009	Grimbert, 78
CO	+	Fe	12100	Von Rosenberg, 71
CO	+	H	12109	Von Rosenberg, 71
CO	+	He	5382	Djeu, 72
			5430	Berend, 73
			5854	Comes, 72
			6060	Fink, 74
			6088	Green, 73
			6124	Stephenson, 74
			6640	Melton, 75
			8206	Melton, 76
			8292	Drozdoski, 76
			10888	Fontijn, 73
			10905	Slanger, 73
			10963	Slanger, 73
			11353	Young, 71
			11982	Miller, 70
			12009	Grimbert, 78
			12459	Hancock, 71

ORIGINAL DATA

CO	+	He	14754	Allen,	79
			14820	Hancock,	71
CO	+	Kr	5854	Comes,	72
			6060	Fink,	74
			6640	Melton,	75
			8206	Melton,	76
			12009	Grimbert,	78
CO	+	Ne	5854	Comes,	72
			6060	Fink,	74
			6640	Melton,	75
			8206	Melton,	76
			15289	Borrell,	73
CO	+	O	5566	Center,	73
			5762	Eckstrom,	73
			12250	Lewittes,	78
CO	+	Xe	6640	Melton,	75
CO	+	Br_2	8893	Davis,	76
CO	+	CN	8848	Ochkin,	76
CO	+	CO	5509	Stephenson,	73
			5536	Sackett,	73
			5618	Chackerian Jr.,	73
			5800	Smith,	73
			5886	Slanger,	73
			5929	Powell,	73
			6124	Stephenson,	74
			6324	Fushiki,	74
			6352	Chackerian Jr.,	73
			6640	Melton,	75
			6756	Liu,	75
			6764	Hancock,	74
			6777	Nachshon,	75
			6961	Powell,	75
			7336	Gower,	75
			7645	Brechignac,	75
			9816	Thomas,	77
			10362	Brechignac,	77
			10871	Dotchin,	73
			10920	Young,	73
			10963	Slanger,	73
			11013	Seery,	72
			11353	Young,	71
			11372	Wittig,	71
			12057	Yardley,	70
			12060	Brau,	70
			12109	Von Rosenberg,	71
			12459	Hancock,	71
			12524	Wittig,	72
			13149	Brechignac,	78
			14818	Margottin-Maclou,	71
			14820	Hancock,	71
CO	+	Cl_2	6088	Green,	73
CO	+	DBr	8427	Braithwaite,	76
			10959	Zittel,	73
CO	+	DCl	8427	Braithwaite,	76

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CO	+	DCl	10959	Zittel,	73
CO	+	D_2	5854	Comes,	72
			6088	Green,	73
			6640	Melton,	75
			8206	Melton,	76
			8292	Drozdoski,	76
			8484	Simpson,	76
			9414	Allen,	77
			9764	Doyennette,	77
			14754	Allen,	79
CO	+	DI	10959	Zittel,	73
CO	+	HBr	8427	Braithwaite,	76
			11375	Chen,	71
CO	+	HCl	8427	Braithwaite,	76
CO	+	HD	8292	Drozdoski,	76
			8440	Andrews,	76
			9414	Allen,	77
			14754	Allen,	79
CO	+	H_2	5854	Comes,	72
			6088	Green,	73
			6124	Stephenson,	74
			6640	Melton,	75
			7334	Matsui,	75
			7647	Andrews,	75
			8206	Melton,	76
			8440	Andrews,	76
			9414	Allen,	77
			10963	Slanger,	73
			11982	Miller,	70
			14754	Allen,	79
CO	+	N_2	5854	Comes,	72
			6088	Green,	73
			6124	Stephenson,	74
			7647	Andrews,	75
			8093	Mastrocinque,	76
			9593	Nasser,	77
			10888	Fontijn,	73
			10959	Zittel,	73
			10963	Slanger,	73
			14820	Hancock,	71
CO	+	NO	6088	Green,	73
			6335	Stephenson,	74
			9764	Doyennette,	77
			11353	Young,	71
			14820	Hancock,	71
CO	+	O_2	5566	Center,	73
			6088	Green,	73
			6243	Miller,	74
			9764	Doyennette,	77
			11099	Fisher,	78
			12198	Price,	78
			12459	Hancock,	71
			14820	Hancock,	71
CO	+	CO_2	5508	Kovacs,	73
			6712	Miller,	74
			7279	Starr,	75

CO	+	CO_2	12479	Lawrence,	71
			14820	Hancock,	71
CO	+	CS_2	5508	Kovacs,	73
			6764	Hancock,	74
			6765	Richman,	74
CO	+	D_2O	6124	Stephenson,	74
CO	+	H_2O	6124	Stephenson,	74
CO	+	H_2S	6124	Stephenson,	74
CO	+	N_2O	6764	Hancock,	74
			14820	Hancock,	71
CO	+	NO_2	6335	Stephenson,	74
CO	+	OCS	5508	Kovacs,	73
			6764	Hancock,	74
			12459	Hancock,	71
			14820	Hancock,	71
CO	+	O_3	8898	Hui,	76
CO	+	SO_2	5508	Kovacs,	73
			8426	Braithwaite,	76
CO	+	C_2N_2	6764	Hancock,	74
			8426	Braithwaite,	76
CO	+	$CBrF_3$	14362	Macke,	78
CO	+	CD_4	10959	Zittel,	73
CO	+	CF_4	6088	Green,	73
			7082	Richman,	75
			8426	Braithwaite,	76
CO	+	CH_4	5508	Kovacs,	73
			6088	Green,	73
			6124	Stephenson,	74
			7082	Richman,	75
			8426	Braithwaite,	76
CO	+	HCO_2H	6124	Stephenson,	74
CO	+	C_2H_4	6124	Stephenson,	74
CO	+	CH_3OH	6124	Stephenson,	74
CO	+	N_2O_4	6335	Stephenson,	74
CO	+	CH_3CHO	6124	Stephenson,	74
CO	+	SF_6	6088	Green,	73
			6640	Melton,	75
			7082	Richman,	75
			8426	Braithwaite,	76
CO	+	C_2H_6	6124	Stephenson,	74
CO	+	CH_3CO_2H	6124	Stephenson,	74
CO	+	C_2H_5OH	6124	Stephenson,	74
CO	+	C_6H_6	12259	Frisbee,	78
CO	+	C_4H_{10}	6124	Stephenson,	74
$CO^{\bullet}$	+	CO_2	12094	Rosser Jr.,	71
CO^{+1}	+	He	9772	Miller,	77
			12951	Bondybey,	78
CO^{+1}	+	CO^{+1}	10871	Dotchin,	73
CS	+	Ar	14961	Couchouron,	73
CS	+	He	15296	Morley,	71
CS	+	D_2	15296	Morley,	71
CS	+	HD	15296	Morley,	71
CS	+	H_2	15296	Morley,	71
CS	+	CO_2	15296	Morley,	71
CS	+	D_2O	15296	Morley,	71
CS	+	D_2S	15296	Morley,	71
CS	+	H_2O	15296	Morley,	71
CS	+	H_2S	15296	Morley,	71
CS	+	N_2O	15296	Morley,	71
ClF	+	Ar	12200	Santoro,	78
Cs_2	+	Cs	12113	Gordon,	71
CsF	+	Ar	11508	Bennewitz,	78
CsF	+	Kr	11508	Bennewitz,	78
CsF	+	Xe	11508	Bennewitz,	78
CsF	+	N_2	11508	Bennewitz,	78
CsF	+	CO_2	11508	Bennewitz,	78
CsF	+	N_2O	11508	Bennewitz,	78
CsF	+	NH_3	11508	Bennewitz,	78
DBr	+	DBr	11041	Chen,	72
			12024	Breshears,	70
			13339	Horwitz,	78
DBr	+	DCl	10959	Zittel,	73
DCl	+	Ar	6287	Steele Jr.,	74
			10959	Zittel,	73
DCl	+	Br	8360	Brown,	76
			8986	Macdonald,	76
DCl	+	Cl	7159	Brown,	75
			8088	Brown,	75
			8986	Macdonald,	76
DCl	+	D	7734	Bott,	76
DCl	+	H	7734	Bott,	76
DCl	+	He	6287	Steele Jr.,	74
			10959	Zittel,	73
DCl	+	Ne	6287	Steele Jr.,	74
			10959	Zittel,	73
DCl	+	O	6656	Brown,	75
DCl	+	CO	6677	Borrell,	75
			10959	Zittel,	73
DCl	+	DBr	10248	Bergmann,	75
DCl	+	DCl	10959	Zittel,	73
			11151	Thompson,	72
			12024	Breshears,	70
			12131	Chen,	71
			13339	Horwitz,	78
DCl	+	D_2	10959	Zittel,	73
DCl	+	DI	10248	Bergmann,	75

DCl	+	HCl	12131	Chen, 71
DCl	+	HD	10959	Zittel, 73
DCl	+	H_2	10959	Zittel, 73
DCl	+	N_2	10959	Zittel, 73
DCl	+	CD_4	5535	Zittel, 73
DCl	+	CH_4	5535	Zittel, 73
D_2	+	Ar	5970	Lukasik, 74
			11951	Poulsen, 70
D_2	+	He	5378	Hopkins, 73
			5426	Bird, 72
			5970	Lukasik, 74
			8909	Lukasik, 76
D_2	+	CO	7334	Matsui, 75
D_2	+	D_2	5970	Lukasik, 74
			6088	Green, 73
			6242	Lukasik, 74
			7334	Matsui, 75
			8292	Drozdoski, 76
			9764	Doyennette, 77
			11156	Hopkins, 72
			11951	Poulsen, 70
D_2	+	DF	10395	Bott, 74
			10489	Hinchen, 73
D_2	+	HCl	6919	Bott, 75
			12132	Chen, 71
D_2	+	HD	5970	Lukasik, 74
			11156	Hopkins, 72
D_2	+	H_2	5970	Lukasik, 74
			6242	Lukasik, 74
			11156	Hopkins, 72
			11951	Poulsen, 70
D_2	+	Na_2	13582	Bergmann, 72
D_2	+	CO_2	14274	Grimley, 79
DF	+	Ar	6361	Vasilev, 73
			7083	Bott, 75
			8286	Hancock, 76
			10489	Hinchen, 73
			10490	Bott, 73
			10916	Bott, 73
			15147	Blauer, 72
DF	+	F	10916	Bott, 73
DF	+	He	7083	Bott, 75
			7157	Hancock, 75
			8141	Vasilev, 75
			10489	Hinchen, 73
DF	+	CO	10194	Poole, 77
			10395	Bott, 74
DF	+	DBr	10395	Bott, 74
DF	+	D_2	6763	Bott, 74
			6976	Kwok, 75
			10489	Hinchen, 73
DF	+	D_2	14264	Bott, 79
DF	+	DF	5642	Ahl, 73
			5860	Stephens, 72
			5968	Ernst, 73
			6286	Lucht, 74
			6361	Vasilev, 73
			6365	Bott, 74
			7157	Hancock, 75
			8286	Hancock, 76
			10489	Hinchen, 73
			10490	Bott, 73
			10568	Hinchen, 73
			10916	Bott, 73
			12571	Bott, 73
			15147	Blauer, 72
DF	+	HBr	10395	Bott, 74
DF	+	HCl	10395	Bott, 74
DF	+	HF	5642	Ahl, 73
			6286	Lucht, 74
			6976	Kwok, 75
			7223	Lucht, 75
			10195	Poole, 77
			10489	Hinchen, 73
			10568	Hinchen, 73
			11144	Airey, 72
			14264	Bott, 79
DF	+	H_2	6763	Bott, 74
			10489	Hinchen, 73
			10916	Bott, 73
			14264	Bott, 79
DF	+	N_2	10194	Poole, 77
			10395	Bott, 74
			10489	Hinchen, 73
			10916	Bott, 73
			14264	Bott, 79
			15147	Blauer, 72
DF	+	NO	10395	Bott, 74
			11157	Blauer, 72
DF	+	O_2	8141	Vasilev, 75
			10395	Bott, 74
DF	+	CO_2	5860	Stephens, 72
			6276	Lucht, 74
			6770	Hinchen, 75
			7223	Lucht, 75
			10194	Poole, 77
			10490	Bott, 73
			11144	Airey, 72
			14264	Bott, 79
			14424	Brown, 79
			15336	Vasilev, 72
DF	+	D_2O	10194	Poole, 77
DF	+	HCN	9232	McGarvey Jr., 7
			10194	Poole, 77
DI	+	DCl	10959	Zittel, 73

DI	+	DI	12024	Breshears, 70
			12118	Breshears, 71
DI	+	N_2	12118	Breshears, 71
F_2	+	Ar	10426	Diebold, 74
F_2	+	He	10261	Diebold, 75
F_2	+	F_2	10426	Diebold, 74
HBr	+	Ar	11374	Chen, 71
			15293	Donovan, 70
HBr	+	Br	8115	Karny, 76
			8986	Macdonald, 76
			15143	Donovan, 70
			15293	Donovan, 70
HBr	+	He	5670	Hopkins, 73
			11374	Chen, 71
			15293	Donovan, 70
HBr	+	Ne	11374	Chen, 71
HBr	+	Br_2	8115	Karny, 76
			15293	Donovan, 70
HBr	+	CO	6677	Borrell, 75
			11375	Chen, 71
			15293	Donovan, 70
HBr	+	DBr	11041	Chen, 72
HBr	+	D_2	11375	Chen, 71
HBr	+	HBr	5419	Burak, 72
			5642	Ahl, 73
			5949	Zittel, 73
			10560	Noter, 73
			11041	Chen, 72
			11374	Chen, 71
			12024	Breshears, 70
			12537	Hopkins, 72
			13339	Horwitz, 78
			15293	Donovan, 70
HBr	+	HCl	11374	Chen, 71
			15143	Donovan, 70
			15293	Donovan, 70
HBr	+	HD	5670	Hopkins, 73
HBr	+	HF	5642	Ahl, 73
HBr	+	H_2	11374	Chen, 71
			15293	Donovan, 70
HBr	+	HI	11374	Chen, 71
HBr	+	N_2	11375	Chen, 71
			15293	Donovan, 70
HBr	+	O_2	11375	Chen, 71
HBr	+	H_2O	5670	Hopkins, 73
HBr	+	CD_4	5670	Hopkins, 73
HBr	+	CH_4	5670	Hopkins, 73
			15293	Donovan, 70
HBr	+	SF_6	15293	Donovan, 70
HCl	+	Ar	5443	Seery, 73

HCl	+	Ar	6287	Steele Jr., 74
			12131	Chen, 71
HCl	+	Br	7312	Leone, 75
			7747	Karny, 76
			8360	Brown, 76
HCl	+	Cl	6636	Macdonald, 75
			7159	Brown, 75
			7747	Karny, 76
			8088	Brown, 75
			12475	Ridley, 71
HCl	+	D	7734	Bott, 76
HCl	+	H	7734	Bott, 76
HCl	+	He	5443	Seery, 73
			5926	Hopkins, 73
			6287	Steele Jr., 74
			10959	Zittel, 73
			11170	Hopkins, 72
			12131	Chen, 71
HCl	+	Kr	5443	Seery, 73
			11170	Hopkins, 72
HCl	+	Ne	5443	Seery, 73
			6287	Steele Jr., 74
			11170	Hopkins, 72
			12131	Chen, 71
HCl	+	O	6656	Brown, 75
			7159	Brown, 75
			10225	Macdonald, 78
			12629	Karny, 75
HCl	+	Br_2	7312	Leone, 75
HCl	+	CO	6444	Allee, 74
			6677	Borrell, 75
			7194	Seery, 75
			12132	Chen, 71
HCl	+	Cl_2	6919	Bott, 75
HCl	+	DCl	12132	Chen, 71
HCl	+	D_2	5926	Hopkins, 73
			6444	Allee, 74
			6919	Bott, 75
			11156	Hopkins, 72
HCl	+	DF	10395	Bott, 74
HCl	+	HBr	6919	Bott, 75
			12132	Chen, 71
HCl	+	HCl	5409	Burak, 72
			5539	Leone, 73
			5642	Ahl, 73
			5926	Hopkins, 73
			5949	Zittel, 73
			6918	Menard-Bourcin, 75
			8126	Slobodskaya, 75
			10560	Noter, 73
			11151	Thompson, 72
			11170	Hopkins, 72
			12024	Breshears, 70

HCl	+	HCl	12131	Chen, 71
			12505	Ambartzumian, 72
			13339	Horwitz, 78
			14499	Horwitz, 79
			14818	Margottin-Maclou, 71
HCl	+	HD	11156	Hopkins, 72
HCl	+	HF	5642	Ahl, 73
			6919	Bott, 75
HCl	+	H_2	6042	Menard-Bourcin, 74
			6918	Menard-Bourcin, 75
			6919	Bott, 75
			12131	Chen, 71
			14813	Rosen, 79
HCl	+	HI	12132	Chen, 71
HCl	+	N_2	6444	Allee, 74
			6919	Bott, 75
			12132	Chen, 71
HCl	+	O_2	9816	Thomas, 77
			10959	Zittel, 73
HCl	+	CO_2	8126	Slobodskaya, 75
			13336	Doyennette, 78
			14425	Bartoszek, 79
HCl	+	H_2O	12131	Chen, 71
HCl	+	H_2S	7164	Coombe, 75
HCl	+	H_2Se	7164	Coombe, 75
HCl	+	N_2O	13336	Doyennette, 78
HCl	+	NOCl	12977	Doyennette, 78
HCl	+	$SOCl_2$	7164	Coombe, 75
HCl	+	CD_4	5535	Zittel, 73
HCl	+	CH_4	5535	Zittel, 73
			12132	Chen, 71
HCl	+	HNO_3	7164	Coombe, 75
HCl	+	NO_3Cl	7164	Coombe, 75
HCl	+	$SiHCl_3$	7164	Coombe, 75
HCl	+	SiH_2Cl_2	7164	Coombe, 75
HCl	+	$C_2H_2Cl_2$	7164	Coombe, 75
HCl	+	CF_3OCl	7164	Coombe, 75
HCl	+	PF_3H_2	7164	Coombe, 75
HCl^*	+	HCl	14822	Gorshkov, 71
HD	+	Ar	6921	Simpson, 75
HD	+	Cl	7332	Quigley, 75
HD	+	F	7332	Quigley, 75
HD	+	He	11016	Fink, 72
HD	+	Ne	11016	Fink, 72
HD	+	O	7332	Quigley, 75
HD	+	HD	11156	Hopkins, 72
HD	+	CO_2	14274	Grimley, 79
HF	+	Ar	5793	Blair, 73
HF	+	Ar	6361	Vasilev, 73
			10489	Hinchen, 73
			11034	Hancock, 72
			11182	Hancock, 72
			11360	Bott, 71
			12458	Airey, 71
			15092	Arutyunov, 72
HF	+	Br	7870	Wodarczyk, 76
HF	+	Cl	7332	Quigley, 75
HF	+	F	5793	Blair, 73
			6399	Quigley, 74
			7332	Quigley, 75
			10390	Chen, 74
			11343	Hess, 71
			11367	Bott, 71
			15146	Solomon, 71
HF	+	H	6399	Quigley, 74
			7154	Heidner III, 75
			9193	Bott, 77
			9405	Heidner III, 77
			10390	Chen, 74
			11096	Bott, 78
			11343	Hess, 71
HF	+	He	6434	Bott, 74
			8141	Vasilev, 75
			10489	Hinchen, 73
			11343	Hess, 71
			11360	Bott, 71
HF	+	I	9404	Wanner, 77
HF	+	O	6399	Quigley, 74
			7332	Quigley, 75
HF	+	CO	5564	Bott, 73
			10194	Poole, 77
HF	+	Cl_2	15147	Blauer, 72
HF	+	ClF	6434	Bott, 74
HF	+	DBr	6434	Bott, 74
HF	+	D_2	5564	Bott, 73
			10195	Poole, 77
			11034	Hancock, 72
			11182	Hancock, 72
			11360	Bott, 71
			13963	Douglas, 79
HF	+	DF	5564	Bott, 73
			5642	Ahl, 73
			6286	Lucht, 74
			7157	Hancock, 75
			7223	Lucht, 75
			8286	Hancock, 76
			10489	Hinchen, 73
HF	+	F_2	6149	Hancock, 73
			10390	Chen, 74
			11343	Hess, 71
			12458	Airey, 71

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HF	+	F_2	14919	Fried, 73
HF	+	HBr	5564	Bott, 73
			5642	Ahl, 73
HF	+	HCl	5564	Bott, 73
			5642	Ahl, 73
			8861	Bott, 76
			11157	Blauer, 72
HF	+	HD	10195	Poole, 77
HF	+	HF	5642	Ahl, 73
			5793	Blair, 73
			5860	Stephens, 72
			6017	Osgood Jr., 74
			6149	Hancock, 73
			6278	Kwok, 74
			6286	Lucht, 74
			6361	Vasilev, 73
			6365	Bott, 74
			6976	Kwok, 75
			7157	Hancock, 75
			8815	Hinchen, 76
			9098	Rityn, 76
			9417	Schmailzl, 77
			10195	Poole, 77
			10390	Chen, 74
			10489	Hinchen, 73
			10568	Hinchen, 73
			11034	Hancock, 72
			11129	Bott, 72
			11144	Airey, 72
			11151	Thompson, 72
			11182	Hancock, 72
			11343	Hess, 71
			11360	Bott, 71
			11894	Douglas, 78
			12458	Airey, 71
			14826	Osgood Jr., 72
			14919	Fried, 73
			15092	Arutyunov, 72
			15146	Solomon, 71
			15147	Blauer, 72
HF	+	H_2	5564	Bott, 73
			6149	Hancock, 73
			6278	Kwok, 74
			6763	Bott, 74
			8861	Bott, 76
			10195	Poole, 77
			10390	Chen, 74
			10489	Hinchen, 73
			11034	Hancock, 72
			11182	Hancock, 72
			11343	Hess, 71
			13963	Douglas, 79
			15092	Arutyunov, 72
HF	+	HI	5642	Ahl, 73
HF	+	N_2	5564	Bott, 73
			5674	Sentman, 73

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HF	+	N_2	8861	Bott, 76
			10194	Poole, 77
			11034	Hancock, 72
			11182	Hancock, 72
			11360	Bott, 71
			12458	Airey, 71
			14919	Fried, 73
			15092	Arutyunov, 72
			15147	Blauer, 72
HF	+	NO	5564	Bott, 73
			11157	Blauer, 72
HF	+	O_2	5564	Bott, 73
			8141	Vasilev, 75
			8861	Bott, 76
			10194	Poole, 77
			15147	Blauer, 72
HF	+	CO_2	5564	Bott, 73
			5860	Stephens, 72
			6276	Lucht, 74
			6478	Kwok, 74
			7223	Lucht, 75
			8486	Nikitin, 76
			10194	Poole, 77
			11034	Hancock, 72
			11144	Airey, 72
			11182	Hancock, 72
			13963	Douglas, 79
			14052	Arnold, 78
			14424	Brown, 79
			15336	Vasilev, 72
HF	+	D_2O	10194	Poole, 77
			11157	Blauer, 72
			11182	Hancock, 72
HF	+	HCN	9232	McGarvey Jr., 77
			10194	Poole, 77
HF	+	H_2O	10194	Poole, 77
			11157	Blauer, 72
			11182	Hancock, 72
HF	+	H_2S	6434	Bott, 74
			6478	Kwok, 74
HF	+	N_2O	6434	Bott, 74
			6478	Kwok, 74
			10194	Poole, 77
HF	+	SO_2	6434	Bott, 74
HF	+	BF_3	6434	Bott, 74
HF	+	C_2H_2	5621	Anlauf, 73
HF	+	COF_2	6434	Bott, 74
HF	+	ClF_3	6149	Hancock, 73
HF	+	NF_3	6149	Hancock, 73
			6434	Bott, 74
HF	+	NH_3	10194	Poole, 77
HF	+	$CBrF_3$	6434	Bott, 74
HF	+	CF_4	6149	Hancock, 73

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HF	+	CF_4	6434	Bott, 74
			6478	Kwok, 74
			14052	Arnold, 78
HF	+	CH_4	5621	Anlauf, 73
			6149	Hancock, 73
			6478	Kwok, 74
			10194	Poole, 77
			14052	Arnold, 78
HF	+	SO_2F_2	6434	Bott, 74
HF	+	SiF_4	6434	Bott, 74
HF	+	C_2HF_3	14052	Arnold, 78
HF	+	$C_2H_2F_2$	14052	Arnold, 78
HF	+	C_2H_3F	14052	Arnold, 78
HF	+	C_2H_4	5621	Anlauf, 73
			14052	Arnold, 78
HF	+	PF_5	6434	Bott, 74
HF	+	SF_6	6149	Hancock, 73
			6434	Bott, 74
			6478	Kwok, 74
			10194	Poole, 77
			14919	Fried, 73
HF	+	C_2F_6	6434	Bott, 74
HF	+	C_2H_6	5621	Anlauf, 73
			6149	Hancock, 73
			14052	Arnold, 78
HF	+	C_3H_6	6149	Hancock, 73
HF	+	C_3H_8	5621	Anlauf, 73
			6149	Hancock, 73
HF	+	C_4F_8	6434	Bott, 74
HF	+	C_4H_{10}	6149	Hancock, 73
HF^*	+	H_2	12130	Perona, 71
HF^*	+	OF_2	12130	Perona, 71
H_2	+	Ar	6495	Dove, 74
H_2	+	H	12515	Heidner III, 72
H_2	+	He	6395	Audibert, 74
			6495	Dove, 74
			6752	McGuire, 75
			7672	Audibert, 76
H_2	+	Kr	6495	Dove, 74
H_2	+	Ne	6495	Dove, 74
H_2	+	CO	7334	Matsui, 75
			9274	Miller, 77
			14760	Miller, 76
H_2	+	DBr	9274	Miller, 77
			14760	Miller, 76
H_2	+	DCl	9274	Miller, 77
			14760	Miller, 76
H_2	+	D_2	8439	Pirkle, 76
			8859	Bott, 76
			11951	Poulsen, 70

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H_2	+	HBr	9274	Miller, 77
			14760	Miller, 76
H_2	+	HCl	8439	Pirkle, 76
			8859	Bott, 76
			9274	Miller, 77
			14760	Miller, 76
			14813	Rosen, 79
H_2	+	HF	10489	Hinchen, 73
			11034	Hancock, 72
			11182	Hancock, 72
H_2	+	H_2	5885	Jennings, 73
			6061	Audibert, 74
			6495	Dove, 74
			6601	Audibert, 75
			7334	Matsui, 75
			9786	Delalande, 77
			11951	Poulsen, 70
H_2	+	N_2	8859	Bott, 76
H_2	+	NO	9274	Miller, 77
			14760	Miller, 76
H_2	+	Na_2	13582	Bergmann, 72
H_2	+	CO_2	8859	Bott, 76
			9274	Miller, 77
			14274	Grimley, 79
			14760	Miller, 76
H_2	+	HCN	9232	McGarvey Jr., 77
H_2	+	N_2O	9274	Miller, 77
			14760	Miller, 76
H_2^*	+	Ar	5432	Audibert, 73
H_2^*	+	He	5432	Audibert, 73
H_2^{+1}	+	He	10414	Theard, 74
H_2^{+1}	+	Kr	13164	Herrero, 72
H_2^{+1}	+	H_2	13164	Herrero, 72
HI	+	CO	6677	Borrell, 75
HI	+	HF	5642	Ahl, 73
HI	+	HI	5642	Ahl, 73
			12024	Breshears, 70
			12118	Breshears, 71
HI	+	N_2	12118	Breshears, 71
He_2	+	He_2	15295	Callear, 70
I_2	+	Ar	6852	Tachibana, 74
			14546	McClelland, 79
I_2	+	He	14546	McClelland, 79
			14563	Sharfin, 79
I_2	+	CO	14546	McClelland, 79
I_2	+	D_2	14546	McClelland, 79
I_2	+	H_2	9386	Fitch, 77
			14546	McClelland, 79
I_2	+	I_2	11017	Shotton, 72
I_2	+	N_2	14546	McClelland, 79

$\mathrm{I_2}$	+	$\mathrm{CO_2}$	14546	McClelland,	79
$\mathrm{I_2}$	+	$\mathrm{CF_4}$	14546	McClelland,	79
$\mathrm{I_2}$	+	$\mathrm{CH_4}$	14546	McClelland,	79
$\mathrm{I_2}$	+	$\mathrm{C_2F_6}$	14546	McClelland,	79
$\mathrm{I_2}$	+	$\mathrm{C_2H_6}$	14546	McClelland,	79
$\mathrm{I_2}$	+	$\mathrm{C_3H_8}$	14546	McClelland,	79
$\mathrm{I_2^{\bullet}}$	+	Ar	6660	Bugrim,	74
			11980	Kurzel,	70
			11981	Steinfeld,	70
$\mathrm{I_2^{\bullet}}$	+	He	6660	Bugrim,	74
			11980	Kurzel,	70
			11981	Steinfeld,	70
$\mathrm{I_2^{\bullet}}$	+	Kr	6660	Bugrim,	74
			11980	Kurzel,	70
			11981	Steinfeld,	70
$\mathrm{I_2^{\bullet}}$	+	Ne	6660	Bugrim,	74
			11027	Kurzel,	72
			11980	Kurzel,	70
			11981	Steinfeld,	70
$\mathrm{I_2^{\bullet}}$	+	Xe	11980	Kurzel,	70
			11981	Steinfeld,	70
$\mathrm{I_2^{\bullet}}$	+	CO	6660	Bugrim,	74
$\mathrm{I_2^{\bullet}}$	+	$\mathrm{H_2}$	6660	Bugrim,	74
			11980	Kurzel,	70
$\mathrm{I_2^{\bullet}}$	+	$\mathrm{I_2}$	11027	Kurzel,	72
			11980	Kurzel,	70
			11981	Steinfeld,	70
$\mathrm{I_2^{\bullet}}$	+	$\mathrm{N_2}$	6660	Bugrim,	74
$\mathrm{I_2^{\bullet}}$	+	$\mathrm{O_2}$	6660	Bugrim,	74
$\mathrm{I_2^{\bullet}}$	+	$\mathrm{CO_2}$	6660	Bugrim,	74
			11980	Kurzel,	70
KBr	+	Ar	9379	Crim,	73
			12551	Chou,	73
KBr	+	Ne	9379	Crim,	73
KBr	+	CO	9379	Crim,	73
KBr	+	$\mathrm{N_2}$	9379	Crim,	73
KBr	+	$\mathrm{CO_2}$	9379	Crim,	73
			12551	Chou,	73
LiF	+	Ar	7325	Mariella Jr.,	74
			9810	Mariella Jr.,	77
			11508	Bennewitz,	78
LiF	+	Xe	7325	Mariella Jr.,	74
LiF	+	CO	7325	Mariella Jr.,	74
LiF	+	HCl	7325	Mariella Jr.,	74
LiF	+	HF	7325	Mariella Jr.,	74
LiF	+	$\mathrm{N_2}$	7325	Mariella Jr.,	74
			11508	Bennewitz,	78
LiF	+	NO	7325	Mariella Jr.,	74
LiF	+	$\mathrm{O_2}$	7325	Mariella Jr.,	74

LiF	+	$\mathrm{CO_2}$	7325	Mariella Jr.,	74
			11508	Bennewitz,	78
LiF	+	$\mathrm{H_2O}$	7325	Mariella Jr.,	74
LiF	+	$\mathrm{ND_3}$	7325	Mariella Jr.,	74
			9810	Mariella Jr.,	77
LiF	+	$\mathrm{NH_3}$	7325	Mariella Jr.,	74
			9810	Mariella Jr.,	77
LiF	+	$\mathrm{CHFCl_2}$	7325	Mariella Jr.,	74
LiF	+	$\mathrm{SF_6}$	7325	Mariella Jr.,	74
			9810	Mariella Jr.,	77
			10971	Mariella Jr.,	73
			11508	Bennewitz,	78
$\mathrm{Li_2^{\bullet}}$	+	Ar	6150	Ennen,	74
$\mathrm{Li_2^{\bullet}}$	+	He	6150	Ennen,	74
$\mathrm{Li_2^{\bullet}}$	+	Kr	6150	Ennen,	74
$\mathrm{Li_2^{\bullet}}$	+	Ne	6150	Ennen,	74
$\mathrm{Li_2^{\bullet}}$	+	Xe	6150	Ennen,	74
$\mathrm{N_2}$	+	Ar	7084	Roy,	75
			11580	Touzeau,	78
			12062	Brown,	70
$\mathrm{N_2}$	+	Cs	6291	Benson,	74
$\mathrm{N_2}$	+	He	7084	Roy,	75
			15299	Callear,	71
$\mathrm{N_2}$	+	K	6291	Benson,	74
$\mathrm{N_2}$	+	Kr	7084	Roy,	75
$\mathrm{N_2}$	+	Li	6291	Benson,	74
$\mathrm{N_2}$	+	Na	6291	Benson,	74
			7155	Benson,	75
$\mathrm{N_2}$	+	Ne	7084	Roy,	75
$\mathrm{N_2}$	+	O	6279	McNeal,	74
$\mathrm{N_2}$	+	Xe	7084	Roy,	75
$\mathrm{N_2}$	+	CO	5762	Eckstrom,	73
			5862	Zittel,	72
			11039	Von Rosenberg,	72
			11183	Young,	72
$\mathrm{N_2}$	+	DI	12118	Breshears,	71
$\mathrm{N_2}$	+	HBr	11375	Chen,	71
$\mathrm{N_2}$	+	HI	12118	Breshears,	71
$\mathrm{N_2}$	+	$\mathrm{N_2}$	6767	Dreyer,	74
			10556	Kewley,	73
			10871	Dotchin,	73
			10996	Simpson,	73
			11132	Carlson,	72
			11945	Mitchell,	70
			11971	Hanson,	70
			12054	Miyama,	70
			12062	Brown,	70
			13278	Lyutui,	73
$\mathrm{N_2}$	+	NO	6335	Stephenson,	74
			9083	Whitson Jr.,	77

N_2	+	Na_2	13582	Bergmann, 72
N_2	+	O_2	5762	Eckstrom, 73
			11945	Mitchell, 70
N_2	+	CO_2	10993	Bulthuis, 73
			11028	Oettinger, 72
			15157	Schmalz, 74
N_2	+	H_2O	9083	Whitson Jr., 77
			11039	Von Rosenberg, 72
			11313	Center, 78
			15157	Schmalz, 74
			15373	Evans, 72
N_2	+	O_3	5762	Eckstrom, 73
N_2	+	SO_2	11098	Whitson Jr., 78
N_2^*	+	O	5393	McNeal, 72
N_2^*	+	CO	12119	Horn, 71
N_2^*	+	N_2	12098	Calo, 71
			12592	Brennen, 74
N_2^*	+	NO	12119	Horn, 71
N_2^*	+	CO_2	5394	McNeal, 72
N_2^*	+	N_2O	5394	McNeal, 72
N_2^*	+	OCS	12578	Bogey, 74
N_2^{+1}	+	N_2^{+1}	10871	Dotchin, 73
NO	+	Ar	5671	Stephenson, 73
			7328	Glanzer, 75
			9415	Glanzer, 77
			9616	Glanzer, 77
			11962	Kamimoto, 70
			13247	Slobodskaya, 70
NO	+	Cl	7328	Glanzer, 75
NO	+	He	5671	Stephenson, 73
			6335	Stephenson, 74
NO	+	I	8905	Glanzer, 76
NO	+	O	7328	Glanzer, 75
NO	+	CO	5671	Stephenson, 73
			6290	Weeks, 74
			13247	Slobodskaya, 70
			15298	Billingsley, 71
NO	+	DCl	10959	Zittel, 73
NO	+	HCl	10959	Zittel, 73
NO	+	H_2	5671	Stephenson, 73
NO	+	N_2	5671	Stephenson, 73
			7107	Murphy, 75
			13247	Slobodskaya, 70
			15298	Billingsley, 71
NO	+	NO	5507	Amme, 73
			5619	Bass, 73
			5671	Stephenson, 73
			6290	Weeks, 74
			6335	Stephenson, 74
			7328	Glanzer, 75
			9415	Glanzer, 77

NO	+	NO	9616	Glanzer, 77
			9816	Thomas, 77
			10292	Nachshon, 74
			10561	Melton, 73
			11247	Patel, 78
			11962	Kamimoto, 70
			13247	Slobodskaya, 70
			15022	Horiguchi, 79
NO	+	O_2	7107	Murphy, 75
			9407	Stephenson, 76
			9816	Thomas, 77
NO	+	CO_2	5671	Stephenson, 73
			13247	Slobodskaya, 70
NO	+	D_2O	6335	Stephenson, 74
NO	+	H_2O	6335	Stephenson, 74
NO	+	NO_2	6335	Stephenson, 74
			7328	Glanzer, 75
NO	+	O_3	12856	Bar–Ziv, 78
NO	+	CH_4	6335	Stephenson, 74
NO	+	C_2H_4	6335	Stephenson, 74
NO	+	CF_3NO	11999	Roellig, 78
NO	+	C_2H_6	6335	Stephenson, 74
NO	+	C_4H_{10}	6335	Stephenson, 74
NO^{+1}	+	N_2	12242	Bien, 78
NO^{+1}	+	NO	12242	Bien, 78
OD	+	H_2	8121	German, 76
OD	+	N_2	8121	German, 76
OD	+	O_2	8121	German, 76
OH	+	Ar	6661	Hogan, 75
			7659	Streit, 76
			14610	Lengel, 78
OH	+	He	6661	Hogan, 75
			14610	Lengel, 78
OH	+	D_2	7659	Streit, 76
			14610	Lengel, 78
OH	+	H_2	6661	Hogan, 75
			7659	Streit, 76
			8121	German, 76
			14610	Lengel, 78
OH	+	N_2	6661	Hogan, 75
			7659	Streit, 76
			8121	German, 76
			14610	Lengel, 78
OH	+	O_2	7659	Streit, 76
			8121	German, 76
OH^*	+	Ar	6950	Lengel, 75
			11930	Welge, 70
OH^*	+	He	6950	Lengel, 75
OH^*	+	D_2	6950	Lengel, 75
OH^*	+	H_2	6950	Lengel, 75

$OH^{\cdot}$	+	N_2	6950	Lengel, 75
			11930	Welge, 70
$OH^{\cdot}$	+	O_2	11344	Worley, 71
O_2	+	He	6623	Parker, 75
			11056	Parker, 72
O_2	+	O	5620	Breen, 73
			5861	Webster III, 72
O_2	+	DCl	10959	Zittel, 73
O_2	+	HCl	10959	Zittel, 73
O_2	+	H_2	11056	Parker, 72
O_2	+	O_2	10298	Parker, 74
			10564	Cleaver, 73
			10906	Parker, 73
			10924	Frankiewicz, 73
			11021	Anderson, 72
			15239	Ismailov, 70
			15372	Parker, 72
			15376	Dean, 73
O_2	+	CO_2	10882	Parker, 73
O_2	+	H_2O	9004	Bass, 76
			15376	Dean, 73
			15377	Bass, 74
O_2	+	O_3	10191	Parker, 77
			10882	Parker, 73
$O_2^{\cdot}$	+	O	11169	Webster III, 72
$O_2^{\cdot}$	+	O_2	15081	Schurath, 75
$O_2^{\cdot}$	+	CO_2	5534	Bass, 73
$S_2^{\cdot}$	+	Ar	12946	Caughey, 78
$S_2^{\cdot}$	+	He	12946	Caughey, 78
$S_2^{\cdot}$	+	Kr	12946	Caughey, 78
$S_2^{\cdot}$	+	Ne	12946	Caughey, 78
$S_2^{\cdot}$	+	Xe	12946	Caughey, 78
$S_2^{\cdot}$	+	H_2	12946	Caughey, 78
$S_2^{\cdot}$	+	N_2	12946	Caughey, 78
TF	+	CO_2	8486	Nikitin, 76
$Xe_2^{\cdot}$	+	Kr	12616	Fink, 75
$Xe_2^{\cdot}$	+	Xe	12616	Fink, 75
$CF_2^{\cdot}$	+	He	14798	Akins, 79
$CF_2^{\cdot}$	+	Ne	14798	Akins, 79
$CF_2^{\cdot}$	+	N_2	14798	Akins, 79
$CF_2^{\cdot}$	+	SF_6	14798	Akins, 79
CH_2	+	CF_4	12500	Hase, 71
CO_2	+	Ar	5458	Matsui, 73
			5499	Cannemeijer, 73
			5795	Center, 73
			6016	Cannemeijer, 73
			6628	Huetz-Aubert, 74
			6934	Inoue, 75
			9114	Allen, 77
CO_2	+	Ar	9414	Allen, 77
			11249	Vasilev, 77
			11963	Kamimoto, 70
			12120	Stephenson, 71
			14988	Cannemeijer, 71
CO_2	+	Cl	6641	Buchwald, 75
CO_2	+	Cs	6291	Benson, 74
CO_2	+	D	6641	Buchwald, 75
CO_2	+	F	6641	Buchwald, 75
CO_2	+	H	6641	Buchwald, 75
CO_2	+	He	5438	Rosser Jr., 72
			5804	Reid, 73
			6016	Cannemeijer, 73
			6628	Huetz-Aubert, 74
			6673	Biryukov, 74
			6934	Inoue, 75
			7729	Simpson, 76
			7730	Simpson, 76
			12120	Stephenson, 71
			12538	Rao, 72
			12627	Aung, 75
			13438	Jacobs, 75
			14988	Cannemeijer, 71
			15278	Biryukov, 72
			15327	Biryukov, 71
CO_2	+	K	6291	Benson, 74
CO_2	+	Kr	5499	Cannemeijer, 73
			6016	Cannemeijer, 73
			6628	Huetz-Aubert, 74
			12120	Stephenson, 71
			14988	Cannemeijer, 71
CO_2	+	Li	6291	Benson, 74
CO_2	+	N	6641	Buchwald, 75
CO_2	+	Na	6291	Benson, 74
			7155	Benson, 75
CO_2	+	Ne	5499	Cannemeijer, 73
			6016	Cannemeijer, 73
			6628	Huetz-Aubert, 74
			6934	Inoue, 75
			12120	Stephenson, 71
CO_2	+	O	5795	Center, 73
			5965	Cramp, 73
			6641	Buchwald, 75
CO_2	+	Xe	5438	Rosser Jr., 72
			5499	Cannemeijer, 73
			6016	Cannemeijer, 73
			6628	Huetz-Aubert, 74
			12120	Stephenson, 71
CO_2	+	Br_2	8893	Davis, 76
			10098	Hariri, 77
CO_2	+	CO	5869	Borrell, 72
			7068	Chakroun, 75
			7162	Inoue, 75

CO_2	+	CO	8146	Vargin,	75
			8858	Taine,	76
			8896	Vargin,	76
			11013	Seery,	72
			11024	Stephenson,	72
			11818	Huetz-Aubert,	78
			12962	Taine,	78
			14948	Sato,	72
CO_2	+	DBr	5863	Stephenson,	72
CO_2	+	DCl	5863	Stephenson,	72
CO_2	+	D_2	7729	Simpson,	76
			7730	Simpson,	76
			9097	Tsuchiya,	76
			11024	Stephenson,	72
			14274	Grimley,	79
			15258	Simpson,	70
CO_2	+	DF	5860	Stephens,	72
			6276	Lucht,	74
			6770	Hinchen,	75
			10490	Bott,	73
			11015	Chang,	72
CO_2	+	DI	5863	Stephenson,	72
CO_2	+	F_2	11249	Vasilev,	77
CO_2	+	HBr	5863	Stephenson,	72
			14287	Seoudi,	79
CO_2	+	HCl	5863	Stephenson,	72
			8126	Slobodskaya,	75
			13336	Doyennette,	78
CO_2	+	HD	7729	Simpson,	76
			7730	Simpson,	76
			12120	Stephenson,	71
			14274	Grimley,	79
CO_2	+	HF	5860	Stephens,	72
			6276	Lucht,	74
			7223	Lucht,	75
			11015	Chang,	72
			11034	Hancock,	72
			11182	Hancock,	72
CO_2	+	H_2	7729	Simpson,	76
			9097	Tsuchiya,	76
			12120	Stephenson,	71
			12464	Behnen,	71
			14274	Grimley,	79
			14534	Bass,	79
			15258	Simpson,	70
			15259	Simpson,	71
CO_2	+	HI	5863	Stephenson,	72
CO_2	+	N_2	4773	Domnin,	72
			5438	Rosser Jr.,	72
			6337	Cannemeijer,	74
			6673	Biryukov,	74
			7162	Inoue,	75
			7171	Gueguen,	75
			8896	Vargin,	76
CO_2	+	N_2	10138	Bass,	77
			10973	Shields,	73
			11015	Chang,	72
			11024	Stephenson,	72
			11028	Oettinger,	72
			11818	Huetz-Aubert,	78
			12538	Rao,	72
			12627	Aung,	75
			12962	Taine,	78
			13438	Jacobs,	75
			14948	Sato,	72
			15258	Simpson,	70
			15277	Yushchenkova,	72
			15278	Biryukov,	72
			15327	Biryukov,	71
CO_2	+	O_2	4773	Domnin,	72
			5795	Center,	73
			6337	Cannemeijer,	74
			8146	Vargin,	75
			9174	Simpson,	77
			9816	Thomas,	77
			10886	Rosen,	73
			11024	Stephenson,	72
			12962	Taine,	78
CO_2	+	CO_2	4773	Domnin,	72
			5438	Rosser Jr.,	72
			5499	Cannemeijer,	73
			5756	Slobodskaya,	73
			5804	Reid,	73
			5805	Stark Jr.,	73
			5853	Eckstrom,	72
			5856	Huetz-Aubert,	72
			6016	Cannemeijer,	73
			6575	Sepucha,	75
			6628	Huetz-Aubert,	74
			6673	Biryukov,	74
			6719	Huetz-Aubert,	74
			6784	Doyennette,	75
			6974	Finzi,	75
			7278	Slobodskaya,	75
			7291	Vargin,	75
			7730	Simpson,	76
			8858	Taine,	76
			9114	Allen,	77
			9414	Allen,	77
			9574	Lepoutre,	77
			10138	Bass,	77
			10268	Murray,	75
			10397	Doyennette,	74
			10973	Shields,	73
			10993	Bulthuis,	73
			11366	Seeber,	71
			11960	Eckstrom,	70
			11963	Kamimoto,	70
			12045	Stephenson,	70
			12538	Rao,	72
			12557	Bulthuis,	73

CO_2	+	CO_2	12627	Aung,	75
			13438	Jacobs,	75
			14362	Macke,	78
			14426	Foster,	79
			14818	Margottin-Maclou,	71
			14920	Burak,	73
			14988	Cannemeijer,	71
			15250	Lavercomb,	71
			15258	Simpson,	70
			15278	Biryukov,	72
			15327	Biryukov,	71
CO_2	+	CS_2	11055	Stephenson,	72
CO_2	+	D_2O	10993	Bulthuis,	73
			12025	Heller,	70
			12512	Bulthuis,	72
CO_2	+	HCN	11055	Stephenson,	72
CO_2	+	HDO	12025	Heller,	70
CO_2	+	H_2O	5438	Rosser Jr.,	72
			7291	Vargin,	75
			10993	Bulthuis,	73
			12025	Heller,	70
			12512	Bulthuis,	72
			15184	Bulthuis,	71
			15238	Bashlachev,	72
			15327	Biryukov,	71
CO_2	+	H_2Se	11055	Stephenson,	72
CO_2	+	N_2O	5869	Borrell,	72
			11024	Stephenson,	72
CO_2	+	NOF	5578	Cool,	73
CO_2	+	NO_2	5578	Cool,	73
CO_2	+	OCS	5869	Borrell,	72
			11055	Stephenson,	72
CO_2	+	O_3	5578	Cool,	73
			5751	Von Rosenberg,	73
			5795	Center,	73
CO_2	+	BCl_3	6603	Oettinger,	75
			12045	Stephenson,	70
CO_2	+	C_2D_2	11055	Stephenson,	72
CO_2	+	C_2N_2	11055	Stephenson,	72
CO_2	+	COF_2	5578	Cool,	73
CO_2	+	$CBrF_3$	14362	Macke,	78
CO_2	+	CD_3Cl	11055	Stephenson,	72
CO_2	+	CD_4	5797	Walsh,	73
			11055	Stephenson,	72
			13350	Mehl,	78
CO_2	+	CD_3H	13350	Mehl,	78
CO_2	+	CD_3I	11055	Stephenson,	72
CO_2	+	CF_3I	14362	Macke,	78
CO_2	+	CH_2D_2	11055	Stephenson,	72
			13350	Mehl,	78
CO_2	+	CH_3Br	12045	Stephenson,	70
CO_2	+	CH_3Cl	12045	Stephenson,	70
CO_2	+	CH_3D	13350	Mehl,	78
CO_2	+	CH_3F	5797	Walsh,	73
			12045	Stephenson,	70
CO_2	+	CH_4	5797	Walsh,	73
			12045	Stephenson,	70
			13350	Mehl,	78
			15237	Laidahon,	73
CO_2	+	CH_3I	12045	Stephenson,	70
CO_2	+	C_2D_4	11055	Stephenson,	72
CO_2	+	C_2H_4	11656	Rao,	78
			12045	Stephenson,	70
CO_2	+	CHDCHD	11055	Stephenson,	72
CO_2	+	CH_3CN	11055	Stephenson,	72
CO_2	+	PF_5	6603	Oettinger,	75
CO_2	+	SF_6	6603	Oettinger,	75
			11024	Stephenson,	72
			12045	Stephenson,	70
CO_2	+	C_2F_5Br	14362	Macke,	78
CO_2	+	C_2F_5I	14362	Macke,	78
CO_2	+	C_2H_6	6391	Veerabhadra Rao,	74
			11055	Stephenson,	72
			11656	Rao,	78
CO_2	+	$C_2N_4H_2$	14628	Coulter,	78
CO_2	+	C_3H_8	11055	Stephenson,	72
CO_2^*	+	CO	12094	Rosser Jr.,	71
CO_2^*	+	Cl_2	12134	Rosser Jr.,	71
CO_2^*	+	H_2	12134	Rosser Jr.,	71
CO_2^*	+	NO	12134	Rosser Jr.,	71
CO_2^*	+	O_2	5534	Bass,	73
CO_2^*	+	CO_2	5534	Bass,	73
			11054	Seery,	72
			12134	Rosser Jr.,	71
CO_2^*	+	D_2O	15302	Buchwald,	72
CO_2^*	+	H_2O	15302	Buchwald,	72
CS_2	+	Br_2	10098	Hariri,	77
CS_2	+	CS_2	6764	Hancock,	74
D_2O	+	O_2	9816	Thomas,	77
D_2O	+	D_2O	12247	Grimley,	78
HCN	+	Ar	8418	Hariri,	76
			9232	McGarvey Jr.,	77
HCN	+	He	9232	McGarvey Jr.,	77
HCN	+	Br_2	8418	Hariri,	76
HCN	+	DF	9232	McGarvey Jr.,	77
HCN	+	HF	9232	McGarvey Jr.,	77
HCN	+	N_2	9232	McGarvey Jr.,	77
HCN	+	CO_2	13925	Coulter,	78
			14628	Coulter,	78

HCN	+	HCN	8418	Hariri, 76
			9232	McGarvey Jr., 77
HCN	+	$C_2N_4H_2$	13925	Coulter, 78
			14628	Coulter, 78
HCO	+	H_2CO	14360	Reilly, 78
			14625	Reilly, 78
H_2O	+	Ar	6602	Kung, 75
			9004	Bass, 76
			9005	Keeton, 76
			9895	Finzi, 77
H_2O	+	He	6602	Kung, 75
H_2O	+	Br_2	11292	Hariri, 78
H_2O	+	N_2	6602	Kung, 75
			9004	Bass, 76
			9005	Keeton, 76
			9895	Finzi, 77
H_2O	+	O_2	9004	Bass, 76
			9816	Thomas, 77
			9895	Finzi, 77
			15376	Dean, 73
H_2O	+	H_2O	6602	Kung, 75
			6850	Bass, 74
			9004	Bass, 76
			9005	Keeton, 76
			9895	Finzi, 77
			11292	Hariri, 78
			12247	Grimley, 78
			15376	Dean, 73
			15377	Bass, 74
H_2S	+	H_2O	14978	Bauer, 70
H_2S^{+1}	+	H_2S	7649	Mohlmann, 75
N_2O	+	Ar	6664	Starr, 75
			7366	Kung, 75
N_2O	+	CO	5858	Margottin-Maclou, 72
			6664	Starr, 75
			9102	Suitor, 77
N_2O	+	HBr	14287	Seoudi, 79
N_2O	+	HCl	13336	Doyennette, 78
N_2O	+	N_2	7171	Gueguen, 75
			7366	Kung, 75
			12928	Picard-Berselli, 78
N_2O	+	NO	7366	Kung, 75
N_2O	+	O_2	9816	Thomas, 77
N_2O	+	H_2O	7366	Kung, 75
N_2O	+	N_2O	5849	Chakroun, 73
			5856	Huetz-Aubert, 72
			5931	Gueguen, 73
			6490	Slobodskaya, 74
			6664	Starr, 75
			6719	Huetz-Aubert, 74
			6784	Doyennette, 75
			6974	Finzi, 75

N_2O	+	N_2O	7365	Kung, 75
			10397	Doyennette, 74
			14426	Foster, 79
			14818	Margottin-Maclou, 71
			15378	Arditi, 70
N_2O	+	CD_4	13350	Mehl, 78
N_2O	+	CD_3H	13350	Mehl, 78
N_2O	+	CH_2D_2	13350	Mehl, 78
N_2O	+	CH_3D	13350	Mehl, 78
N_2O	+	CH_4	13350	Mehl, 78
NOCl	+	Ar	9782	Hartford Jr., 77
NOCl	+	NOCl	9782	Hartford Jr., 77
NO_2	+	Ar	14524	Donnelly, 79
NO_2	+	He	10189	Donnelly, 77
			14524	Donnelly, 79
NO_2	+	D_2	14524	Donnelly, 79
NO_2	+	H_2	14524	Donnelly, 79
NO_2	+	N_2	14524	Donnelly, 79
NO_2	+	O_2	14524	Donnelly, 79
NO_2	+	CO_2	14524	Donnelly, 79
NO_2	+	D_2O	14524	Donnelly, 79
NO_2	+	H_2O	14524	Donnelly, 79
NO_2	+	NO_2	10189	Donnelly, 77
			14524	Donnelly, 79
NO_2	+	ND_3	14524	Donnelly, 79
NO_2	+	NH_3	14524	Donnelly, 79
NO_2	+	SF_6	14524	Donnelly, 79
NO_2^*	+	NO_2	12080	Keyser, 71
OCS	+	Ar	8202	Siebert, 76
			8898	Hui, 76
			10098	Hariri, 77
			10558	Hopkins, 73
OCS	+	He	8202	Siebert, 76
			8425	Simpson, 76
			10558	Hopkins, 73
OCS	+	Kr	8202	Siebert, 76
OCS	+	Ne	8202	Siebert, 76
			10558	Hopkins, 73
OCS	+	Xe	8202	Siebert, 76
			14351	Kligler, 78
OCS	+	Br_2	10098	Hariri, 77
OCS	+	D_2	8425	Simpson, 76
OCS	+	HBr	10558	Hopkins, 73
OCS	+	HCl	10558	Hopkins, 73
OCS	+	HD	8425	Simpson, 76
OCS	+	H_2	8425	Simpson, 76
			10558	Hopkins, 73
OCS	+	N_2	8898	Hui, 76

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OCS	+	OCS	8202	Siebert, 76
			8425	Simpson, 76
			8898	Hui, 76
			10098	Hariri, 77
			10558	Hopkins, 73
			14351	Kligler, 78
O_3	+	Ar	6522	Rosen, 75
			6659	Hui, 75
			7189	Kaldor, 75
			7981	Gordon, 76
			10886	Rosen, 73
O_3	+	He	6522	Rosen, 75
			7189	Kaldor, 75
			7981	Gordon, 76
			10886	Rosen, 73
O_3	+	D_2	6522	Rosen, 75
			7981	Gordon, 76
O_3	+	HCl	12945	Gordon, 78
O_3	+	H_2	6522	Rosen, 75
			7189	Kaldor, 75
			7981	Gordon, 76
			10886	Rosen, 73
			12985	Mao, 78
O_3	+	N_2	6522	Rosen, 75
			7189	Kaldor, 75
			7981	Gordon, 76
			10886	Rosen, 73
O_3	+	NO	11108	Hui, 78
O_3	+	O_2	6522	Rosen, 75
			7189	Kaldor. 75
			7981	Gordon, 76
			10287	Von Rosenberg, 74
			10566	Von Rosenberg, 73
			10886	Rosen, 73
O_3	+	CO_2	6522	Rosen, 75
			7189	Kaldor, 75
			7981	Gordon, 76
			10886	Rosen, 73
O_3	+	H_2O	7189	Kaldor, 75
O_3	+	N_2O	7981	Gordon, 76
O_3	+	NO_2	7981	Gordon, 76
O_3	+	OCS	8898	Hui, 76
O_3	+	O_3	6522	Rosen, 75
			6659	Hui, 75
			10886	Rosen, 73
O_3	+	SO_2	7189	Kaldor, 75
O_3	+	CH_2Cl_2	6522	Rosen, 75
O_3	+	CH_3Cl	6522	Rosen, 75
O_3	+	CH_4	6522	Rosen. 75
			7189	Kaldor, 75
			10886	Rosen, 73
O_3	+	SiF_4	7189	Kaldor, 75

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O_3	+	SF_6	6522	Rosen, 75
			7189	Kaldor, 75
$O_3^{\bullet}$	+	Ar	6241	Kurylo, 74
$O_3^{\bullet}$	+	He	6241	Kurylo, 74
			12561	Gordon, 73
$O_3^{\bullet}$	+	H_2	6241	Kurylo, 74
$O_3^{\bullet}$	+	N_2	6241	Kurylo, 74
$O_3^{\bullet}$	+	O_2	6241	Kurylo, 74
			10258	Von Rosenberg, 75
$O_3^{\bullet}$	+	CO_2	6241	Kurylo, 74
$O_3^{\bullet}$	+	H_2O	6241	Kurylo, 74
$O_3^{\bullet}$	+	SO_2	6241	Kurylo, 74
$O_3^{\bullet}$	+	CH_4	6241	Kurylo, 74
$O_3^{\bullet}$	+	SiF_4	6336	Braun, 74
$O_3^{\bullet}$	+	SF_6	6241	Kurylo, 74
SO_2	+	Ar	6569	Siebert, 75
			6927	Earl, 75
			11021	Anderson, 72
			11345	Shields, 71
SO_2	+	He	6569	Siebert, 75
			6927	Earl, 75
SO_2	+	Kr	6569	Siebert, 75
			6927	Earl, 75
SO_2	+	Ne	6569	Siebert, 75
			6927	Earl, 75
SO_2	+	O	10187	West, 77
SO_2	+	Xe	6569	Siebert, 75
			6927	Earl, 75
SO_2	+	O_2	10187	West, 77
			11021	Anderson, 72
SO_2	+	SO_2	6569	Siebert, 75
			6927	Earl, 75
			10187	West, 77
			11021	Anderson, 72
			11345	Shields, 71
			12084	Bass, 71
			12536	Hui, 72
SO_2	+	CH_2F_2	15294	Lambert, 70
BCl_3	+	Ar	10966	Houston, 73
			15089	Houston, 74
BCl_3	+	He	10966	Houston, 73
			15089	Houston, 74
BCl_3	+	Kr	10966	Houston, 73
			15089	Houston, 74
BCl_3	+	Ne	10966	Houston, 73
			15089	Houston, 74
BCl_3	+	Xe	10966	Houston, 73
			15089	Houston, 74
BCl_3	+	DCl	10966	Houston, 73
			15089	Houston, 74

BCl_3	+	D_2	10966	Houston, 73
			15089	Houston, 74
BCl_3	+	HCl	6531	Frankel, 74
			10966	Houston, 73
			15089	Houston, 74
BCl_3	+	HD	10966	Houston, 73
			15089	Houston, 74
BCl_3	+	H_2	10966	Houston, 73
			15089	Houston, 74
BCl_3	+	N_2	10966	Houston, 73
			15089	Houston, 74
BCl_3	+	BCl_3	10966	Houston, 73
			15089	Houston, 74
			15398	Murzin, 73
BCl_3	+	$CHCl_3$	10966	Houston, 73
			15089	Houston, 74
BCl_3	+	CH_3F	10966	Houston, 73
			15089	Houston, 74
BF_3	+	Ar	10105	Kadibelban, 77
BF_3	+	He	10105	Kadibelban, 77
BF_3	+	Kr	10105	Kadibelban, 77
BF_3	+	Ne	10105	Kadibelban, 77
BF_3	+	Xe	10105	Kadibelban, 77
BF_3	+	D_2	10105	Kadibelban, 77
BF_3	+	BF_3	10105	Kadibelban, 77
C_2H_2	+	O_2	9816	Thomas, 77
C_2H_2	+	C_2H_2	10892	Wang, 73
C_2N_2	+	C_2N_2	6764	Hancock, 74
			15294	Lambert, 70
D_2CO	+	D_2CO	13649	Weisshaar, 78
			14548	Shibuya, 79
HDCO	+	HDCO	14548	Shibuya, 79
H_2CO	+	Ar	11899	Shibuya, 78
H_2CO	+	CO	11899	Shibuya, 78
H_2CO	+	N_2	11899	Shibuya, 78
H_2CO	+	NO	11899	Shibuya, 78
H_2CO	+	O_2	11899	Shibuya, 78
H_2CO	+	H_2CO	11899	Shibuya, 78
			13649	Weisshaar, 78
H_2CO	+	CH_2F_2	11899	Shibuya, 78
NH_3	+	Ar	12552	Kukolich, 73
			13481	Hovis, 78
			15359	Ambartzumian, 76
NH_3	+	He	12552	Kukolich, 73
			13481	Hovis, 78
NH_3	+	Xe	15359	Ambartzumian, 76
NH_3	+	HCl	10171	Williams, 77
NH_3	+	N_2	12552	Kukolich, 73

NH_3	+	N_2	13481	Hovis, 78
NH_3	+	O_2	9816	Thomas, 77
			13481	Hovis, 78
			15359	Ambartzumian, 76
NH_3	+	H_2O	10171	Williams, 77
NH_3	+	N_2O	12552	Kukolich, 73
NH_3	+	ND_3	10171	Williams, 77
NH_3	+	NH_3	10171	Williams, 77
			10255	Hoke, 75
			11044	Bass, 72
			12523	Ambartzumian, 72
			12552	Kukolich, 73
			13481	Hovis, 78
			15359	Ambartzumian, 76
NH_3	+	CHF_3	12552	Kukolich, 73
NH_3	+	CH_3F	12552	Kukolich, 73
NH_3	+	CH_3CN	12552	Kukolich, 73
CD_3Br	+	Ar	8362	Lin, 76
CD_3Br	+	He	8362	Lin, 76
CD_3Br	+	Kr	8362	Lin, 76
CD_3Br	+	Ne	8362	Lin, 76
CD_3Br	+	Xe	8362	Lin, 76
CD_3Br	+	CD_3Br	8362	Lin, 76
CD_3Cl	+	Ar	8891	Gamss, 76
CD_3Cl	+	He	8891	Gamss, 76
CD_3Cl	+	Kr	8891	Gamss, 76
CD_3Cl	+	Ne	8891	Gamss, 76
CD_3Cl	+	Xe	8891	Gamss, 76
CD_3Cl	+	CD_3Cl	8891	Gamss, 76
CD_4	+	Ar	5535	Zittel, 73
			9283	De Vasconcelos, 76
			9866	De Vasconcelos, 77
CD_4	+	He	5535	Zittel, 73
			9283	De Vasconcelos, 76
			9866	De Vasconcelos, 77
CD_4	+	Kr	9283	De Vasconcelos, 76
			9866	De Vasconcelos, 77
CD_4	+	Ne	5535	Zittel, 73
			9283	De Vasconcelos, 7
			9866	De Vasconcelos, 7
CD_4	+	DCl	5535	Zittel, 73
CD_4	+	HCl	5535	Zittel, 73
CD_4	+	H_2	5535	Zittel, 73
CD_4	+	CD_4	5535	Zittel, 73
			9283	De Vasconcelos, 7
			9866	De Vasconcelos, 7
CD_4	+	CH_4	5535	Zittel, 73
CD_3F	+	Ar	8498	Gamss, 76
CD_3F	+	He	8498	Gamss, 76

CD_3F	+	Kr	8498	Gamss, 76
CD_3F	+	Ne	8498	Gamss, 76
CD_3F	+	Xe	8498	Gamss, 76
CD_3F	+	CD_3F	8498	Gamss, 76
CD_3H	+	Ar	9590	Drozdoski, 77
CD_3H	+	He	9590	Drozdoski, 77
CD_3H	+	Kr	9590	Drozdoski, 77
CD_3H	+	Ne	9590	Drozdoski, 77
CD_3H	+	Xe	9590	Drozdoski, 77
CD_3H	+	CD_3H	9590	Drozdoski, 77
			12006	Drozdoski, 78
CD_3H	+	CF_4	12006	Drozdoski, 78
CD_3H	+	SiF_4	12006	Drozdoski, 78
CD_3H	+	SF_6	12006	Drozdoski, 78
CD_3I	+	Ar	8361	Langsam, 76
CD_3I	+	He	8361	Langsam, 76
CD_3I	+	Kr	8361	Langsam, 76
CD_3I	+	Ne	8361	Langsam, 76
CD_3I	+	Xe	8361	Langsam, 76
CD_3I	+	CD_3I	8361	Langsam, 76
CF_4	+	Ar	7163	Klein, 75
CF_4	+	He	7163	Klein, 75
CF_4	+	Kr	7163	Klein, 75
CF_4	+	Ne	7163	Klein, 75
CF_4	+	Xe	7163	Klein, 75
CF_4	+	D_2	7163	Klein, 75
CF_4	+	H_2	7163	Klein, 75
CF_4	+	CF_4	7163	Klein, 75
			11905	Ahrens-Botzong, 78
CHF_3	+	Ar	9074	Frank, 76
CHF_3	+	Kr	9074	Frank, 76
CHF_3	+	Xe	9074	Frank, 76
CHF_3	+	D_2	9074	Frank, 76
CHF_3	+	H_2	9074	Frank, 76
CHF_3	+	CHF_3	9074	Frank, 76
			11905	Ahrens-Botzong, 78
CH_2D_2	+	Ar	12984	Apkarian, 78
CH_2D_2	+	He	12984	Apkarian, 78
CH_2D_2	+	Kr	12984	Apkarian, 78
CH_2D_2	+	Ne	12984	Apkarian, 78
CH_2D_2	+	Xe	12984	Apkarian, 78
CH_2D_2	+	CH_2D_2	12984	Apkarian, 78
CH_2F_2	+	Ar	6926	Gamss, 75
CH_2F_2	+	He	6926	Gamss, 75
CH_2F_2	+	Kr	6926	Gamss, 75

CH_2F_2	+	Ne	6926	Gamss, 75
CH_2F_2	+	Xe	6926	Gamss, 75
CH_2F_2	+	CH_2F_2	6926	Gamss, 75
CH_3Br	+	Ar	8113	Earl, 76
CH_3Br	+	He	8113	Earl, 76
CH_3Br	+	Kr	8113	Earl, 76
CH_3Br	+	Ne	8113	Earl, 76
CH_3Br	+	Xe	8113	Earl, 76
CH_3Br	+	CH_3Br	8113	Earl, 76
CH_3Cl	+	Ar	10956	Knudtson, 73
CH_3Cl	+	He	10956	Knudtson, 73
CH_3Cl	+	Kr	10956	Knudtson, 73
CH_3Cl	+	Ne	10956	Knudtson, 73
CH_3Cl	+	Xe	10956	Knudtson, 73
CH_3Cl	+	D_2	10956	Knudtson, 73
CH_3Cl	+	H_2	10956	Knudtson, 73
CH_3Cl	+	CH_3Cl	10394	Grabiner, 74
			10956	Knudtson, 73
			12531	Grabiner, 72
			13708	Frenkel, 71
CH_3Cl	+	CH_4	10956	Knudtson, 73
CH_3F	+	Ar	10569	Grabiner, 73
			10955	Weitz, 73
			12531	Grabiner, 72
			12562	Lee, 73
			15047	Chesnokov, 78
CH_3F	+	He	9526	Fujimoto, 76
			10569	Grabiner, 73
			10955	Weitz, 73
			12562	Lee, 73
CH_3F	+	Kr	9526	Fujimoto, 76
			10569	Grabiner, 73
			10955	Weitz, 73
			12562	Lee, 73
CH_3F	+	Ne	10569	Grabiner, 73
			10955	Weitz, 73
			12562	Lee, 73
CH_3F	+	O	11109	Kneba, 77
CH_3F	+	Xe	10569	Grabiner, 73
			10955	Weitz, 73
			12562	Lee, 73
CH_3F	+	CO	6322	Lee, 74
CH_3F	+	D_2	10955	Weitz, 73
CH_3F	+	H_2	10955	Weitz, 73
CH_3F	+	N_2	10955	Weitz, 73
CH_3F	+	NO	6322	Lee, 74
CH_3F	+	O_2	10955	Weitz, 73
CH_3F	+	NO_2	7715	Lee, 75
CH_3F	+	CH_3Cl	10403	Siebert, 74

CH_3F	+	CH_3Cl	12562	Lee, 73
CH_3F	+	CH_3F	5386	Karny, 72
			9408	Preses, 77
			9910	Huddleston, 77
			10403	Siebert, 74
			10569	Grabiner, 73
			10955	Weitz, 73
			10957	Weitz, 73
			11060	Weitz, 72
			12531	Grabiner, 72
			12877	Sheorey, 78
			12933	Chesnokov, 77
CH_3F	+	CH_4	12234	Chesnokov, 77
CH_4	+	Ar	6719	Huetz-Aubert, 74
			7163	Klein, 75
			8415	Hess, 76
			9266	Huetz-Aubert, 77
			9283	De Vasconcelos, 76
			9524	De Vasconcelos, 77
			12029	Yardley, 70
CH_4	+	He	6719	Huetz-Aubert, 74
			7163	Klein, 75
			8415	Hess, 76
			9266	Huetz-Aubert, 77
			9283	De Vasconcelos, 76
			9524	De Vasconcelos, 77
			12029	Yardley, 70
			15251	Baumgartner, 74
CH_4	+	Kr	6719	Huetz-Aubert, 74
			7163	Klein, 75
			8415	Hess, 76
			9266	Huetz-Aubert, 77
			9283	De Vasconcelos, 76
			9524	De Vasconcelos, 77
			12029	Yardley, 70
CH_4	+	Ne	6719	Huetz-Aubert, 74
			7163	Klein, 75
			8415	Hess, 76
			9266	Huetz-Aubert, 77
			9283	De Vasconcelos, 76
			9524	De Vasconcelos, 77
			12029	Yardley, 70
CH_4	+	Xe	6719	Huetz-Aubert, 74
			7163	Klein, 75
			8415	Hess, 76
			9266	Huetz-Aubert, 77
			12029	Yardley, 70
CH_4	+	CO	6322	Lee, 74
			6719	Huetz-Aubert, 74
			12029	Yardley, 70
CH_4	+	DCl	5535	Zittel, 73
			6719	Huetz-Aubert, 74
CH_4	+	D_2	6719	Huetz-Aubert, 74
			7163	Klein, 75
			12029	Yardley, 70

CH_4	+	D_2	15251	Baumgartner, 74
CH_4	+	HCl	5535	Zittel, 73
			6719	Huetz-Aubert, 74
CH_4	+	HD	6719	Huetz-Aubert, 74
			8415	Hess, 76
			12029	Yardley, 70
CH_4	+	H_2	6719	Huetz-Aubert, 74
			7163	Klein, 75
			8415	Hess, 76
			12029	Yardley, 70
			15251	Baumgartner, 74
CH_4	+	N_2	6719	Huetz-Aubert, 74
			12029	Yardley, 70
CH_4	+	NO	6322	Lee, 74
CH_4	+	O_2	6719	Huetz-Aubert, 74
			12029	Yardley, 70
CH_4	+	H_2S	14977	Bauer, 70
CH_4	+	CH_4	5535	Zittel, 73
			6719	Huetz-Aubert, 74
			7163	Klein, 75
			8415	Hess, 76
			9266	Huetz-Aubert, 77
			9283	De Vasconcelos, 7
			9524	De Vasconcelos, 7
			10892	Wang, 73
			12029	Yardley, 70
			15372	Parker, 72
CH_4	+	C_2H_6	6719	Huetz-Aubert, 74
			12029	Yardley, 70
CH_3I	+	Ar	8117	Langsam, 76
CH_3I	+	He	8117	Langsam, 76
CH_3I	+	Kr	8117	Langsam, 76
CH_3I	+	Ne	8117	Langsam, 76
CH_3I	+	Xe	8117	Langsam, 76
CH_3I	+	CH_3I	8117	Langsam, 76
OsO_4	+	OsO_4	15245	Bazarov, 74
SiF_4	+	Ar	12563	Hallsworth, 73
SiF_4	+	He	12563	Hallsworth, 73
SiF_4	+	N_2	12563	Hallsworth, 73
SiF_4	+	O_2	6336	Braun, 74
			7189	Kaldor, 75
			12563	Hallsworth, 73
SiF_4	+	CO_2	12563	Hallsworth, 73
SiF_4	+	O_3	7189	Kaldor, 75
SiF_4	+	CH_4	12563	Hallsworth, 73
SiH_4	+	He	9073	Janiesch, 76
SiH_4	+	D_2	9073	Janiesch, 76
SiH_4	+	H_2	9073	Janiesch, 76
SiH_4	+	CH_4	9073	Janiesch, 76
SiH_4	+	SiH_4	9073	Janiesch, 76

C_3H_2O	+	CH_3CN	10273	Thayer,	75
$C_2H_2Cl_2$	+	Ar	11047	Molina,	72
C_2H_4	+	Ar	10887	Yuan,	73
			10913	Yuan,	73
			14071	Hager,	79
C_2H_4	+	He	10887	Yuan,	73
			10913	Yuan,	73
			14071	Hager,	79
C_2H_4	+	Kr	10887	Yuan,	73
			10913	Yuan,	73
			14071	Hager,	79
C_2H_4	+	Ne	10887	Yuan,	73
			10913	Yuan,	73
			14071	Hager,	79
C_2H_4	+	Xe	10887	Yuan,	73
			10913	Yuan,	73
			14071	Hager,	79
C_2H_4	+	D_2	10887	Yuan,	73
			10913	Yuan,	73
C_2H_4	+	H_2	10887	Yuan,	73
			10913	Yuan,	73
C_2H_4	+	N_2	10913	Yuan,	73
C_2H_4	+	O_2	10913	Yuan,	73
C_2H_4	+	CH_4	10913	Yuan,	73
			11138	Yuan,	72
C_2H_4	+	C_2H_4	10887	Yuan,	73
			10892	Wang,	73
			10913	Yuan,	73
			11138	Yuan,	72
			12531	Grabiner,	72
			14071	Hager,	79
C_2H_4	+	C_2H_6	11138	Yuan,	72
CF_3CN	+	CF_3CN	15294	Lambert,	70
$CF_3NO^{\cdot}$	+	SF_6	11774	Spears,	78
CHOCHO	+	CHOCHO	12570	Frad,	73
SF_6	+	Ar	10883	Breshears,	73
			10919	Knudtson,	73
			14423	Rutkovskii,	78
SF_6	+	He	10919	Knudtson,	73
			11178	Bates Jr.,	72
SF_6	+	Kr	10919	Knudtson,	73
			11178	Bates Jr.,	72
SF_6	+	Xe	10919	Knudtson,	73
			14423	Rutkovskii,	78
SF_6	+	DCl	10959	Zittel,	73
SF_6	+	HCl	10959	Zittel,	73
SF_6	+	CH_3F	14423	Rutkovskii,	78
SF_6	+	SF_6	10883	Breshears,	73
			10919	Knudtson,	73
			11050	Wang,	72
			11178	Bates Jr.,	72

SF_6	+	SF_6	11914	Akhmanov,	77
			11986	Bates Jr.,	70
			11987	Burak,	70
			12460	Bates Jr.,	71
UF_6	+	Ar	13478	Ambartzumian,	78
			14794	Cravens,	79
UF_6	+	N_2	14794	Cravens,	79
UF_6	+	UF_6	9624	Bass,	77
			13478	Ambartzumian,	78
			14794	Cravens,	79
CH_3CF_3	+	Ar	10466	Marcoux,	78
CH_3CF_3	+	He	10466	Marcoux,	78
CH_3CF_3	+	Kr	10466	Marcoux,	78
CH_3CF_3	+	Ne	10466	Marcoux,	78
CH_3CF_3	+	Xe	10466	Marcoux,	78
CH_3CF_3	+	D_2	10466	Marcoux,	78
CH_3CF_3	+	H_2	10466	Marcoux,	78
CH_3CF_3	+	N_2	10466	Marcoux,	78
CH_3CF_3	+	CO_2	10466	Marcoux,	78
CH_3CF_3	+	CF_4	10466	Marcoux,	78
CH_3CF_3	+	CH_3Cl	10466	Marcoux,	78
CH_3CF_3	+	CH_4	10466	Marcoux,	78
CH_3CF_3	+	SF_6	10466	Marcoux,	78
CH_3CF_3	+	C_2F_6	10466	Marcoux,	78
C_3H_6	+	Ar	11955	Welsh,	70
			15212	Fujimoto,	79
C_3H_6	+	He	11955	Welsh,	70
			15212	Fujimoto,	79
C_3H_6	+	Kr	15212	Fujimoto,	79
C_3H_6	+	Ne	11955	Welsh,	70
			15212	Fujimoto,	79
C_3H_6	+	Xe	15212	Fujimoto,	79
C_3H_6	+	C_3H_6	10892	Wang,	73
			11955	Welsh,	70
C_6D_6	+	C_6D_6	11032	Abramson,	72
$C_6H_4F_2$	+	$C_6H_4F_2$	13652	Steer,	78
C_6H_5F	+	H_2	11935	Nakamura,	70
C_6H_5F	+	CH_4	11935	Nakamura,	70
C_6H_5F	+	C_2H_6	11935	Nakamura,	70
C_6H_5F	+	C_6H_5F	11032	Abramson,	72
C_6H_5F	+	C_4H_{10}	11935	Nakamura,	70
C_6H_6	+	He	10218	Parmenter,	78
C_6H_6	+	CO	10218	Parmenter,	78
			14607	Atkinson,	79
C_6H_6	+	N_2	10218	Parmenter,	78
C_6H_6	+	CO_2	10218	Parmenter,	78
C_6H_6	+	OCS	10218	Parmenter,	78

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C_6H_6	+	OCS	14607	Atkinson, 79
C_6H_6	+	SF_6	10218	Parmenter, 78
C_6H_6	+	C_6H_6	11977	Kemper, 70
$C_6H_6^*$	+	C_6H_6	12014	Nishikawa, 70

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CO	+	Ar	12749	Bender, 78
CO	+	CO	14965	Charneau, 75
CO	+	N_2	14965	Charneau, 75
D_2	+	D_2	9798	Shirley, 77
DF	+	D	6947	Heidner III, 75
DF	+	H	6947	Heidner III, 75
HF	+	D	6947	Heidner III, 75
HF	+	H	6947	Heidner III, 75
HF	+	NF	14037	Macdonald, 79
H_2	+	H_2	9798	Shirley, 77
I_2	+	He	14075	Tusa, 79
I_2	+	I_2	8841	Sakurai, 76
I_2^*	+	Ar	5758	Bugrim, 73
I_2^*	+	He	5758	Bugrim, 73
I_2^*	+	N_2	5758	Bugrim, 73
KBr	+	CH_3NO_2	6981	Crim, 74
KBr	+	C_2H_5OH	6981	Crim, 74
KBr	+	C_3H_8	6981	Crim, 74
N_2	+	N_2	6400	Anketell, 74
N_2	+	N_2O	6856	Bogey, 75
N_2	+	OCS	6856	Bogey, 75
N_2			15004	Anketell, 70
CO_2	+	N_2	9174	Simpson, 77
CO_2	+	CO_2	5296	De Temple, 73
CO_2	+	N_2O	14426	Foster, 79
N_2O	+	N_2^*	12634	Picard-Berselli, 75
N_2O	+	CO_2	14426	Foster, 79
SO_2	+	He	6482	Caton, 74
SO_2	+	N_2	6482	Caton, 74
SO_2	+	CO_2	6482	Caton, 74
SO_2	+	SO_2	6482	Caton, 74
SO_2	+	SF_6	6482	Caton, 74
CCl_2F_2	+	CCl_2F_2	11926	Slezak, 78
CHOCHO	+	CHOCHO	14240	Ten Brink, 79
SF_6	+	Ar	13985	Woodroffe, 78
SF_6	+	He	13985	Woodroffe, 78
SF_6	+	Xe	14637	Quigley, 78
SF_6	+	H_2	14637	Quigley, 78
SF_6	+	SF_6	14421	Gordienko, 78

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- -	12265	Devir, 78
	14645	Zinovev, 77
	15006	Callear, 78
	15091	Povarnitsyn, 70
	15093	Rich, 70

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Molecules	11529	Earl, 78
- -	8001	Ormonde, 75
	9189	Toennies, 76
	14032	Smith, 77
	14293	Dickinson, 79
	14879	Nikitin, 70
	15272	Secrest, 73
	15281	Gordiets, 73

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Cl	+	Cl_2	10257	Levine, 75
D	+	D_2	9411	Smith, 77
H	+	HBr	10257	Levine, 75
H	+	HF	10257	Levine, 75
H	+	H_2	9411	Smith, 77
He	+	D_2	13474	Gerber, 78
He	+	H_2	8853	Billing, 76
			10269	McGuire, 75
			10309	Rabitz, 74
			13474	Gerber, 78
He	+	T_2	13474	Gerber, 78
Br_2	+	Ar	9597	Jolly, 77
			10188	Nordholm, 77
			14785	Bowman, 79
			15338	Podlubnyi, 72
Br_2	+	H	14785	Bowman, 79
Br_2	+	He	7770	McKenzie, 76
			15338	Podlubnyi, 72
Br_2	+	Ne	15338	Podlubnyi, 72
Br_2	+	Br_2	8207	Bergeron, 76
			10991	Wagner, 73
CO	+	Ar	7770	McKenzie, 76
			8465	Sutherley, 76
			10290	Lifshitz, 74
			11168	Center, 72
			12009	Grimbert, 78
			14618	Akulintsev, 77
			14823	Center, 71
CO	+	Fe	15308	Nikitin, 72
CO	+	He	6757	Liu, 75
			7770	McKenzie, 76
			8140	Verter, 76
			8143	Wassam Jr., 76

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CO	+	He	8465	Sutherley, 76
			9110	Wassam Jr., 77
			9202	Price, 77
			9634	Gianturco, 77
			10290	Lifshitz, 74
			11369	Shin, 71
			11984	Hansen, 70
			12009	Grimbert, 78
			14048	Ramaswamy, 79
			14246	Ewing, 79
CO	+	Kr	12009	Grimbert, 78
CO	+	O	9076	Kelley, 77
CO	+	CO	5397	Dawson, 72
			5881	Stettler, 73
			6757	Liu, 75
			7168	Sharma, 75
			7427	Misra, 74
			7645	Brechignac, 75
			8169	Procaccia, 75
			8903	Chow Chiu, 76
			10290	Lifshitz, 74
			11140	Shin, 72
			11168	Center, 72
			11363	Jeffers, 71
			11984	Hansen, 70
			12606	Lev-On, 74
			12615	Sharma, 75
			13356	Dillon, 72
			14768	Shin, 79
			14823	Center, 71
CO	+	Cl_2	10095	Shin, 77
CO	+	DCl	7427	Misra, 74
CO	+	D_2	10095	Shin, 77
			10401	Shin, 74
CO	+	H_2	6217	Nelson, 73
			10290	Lifshitz, 74
			11243	Stricker, 78
			11329	Sharma, 71
			11984	Hansen, 70
CO	+	N_2	7427	Misra, 74
			8169	Procaccia, 75
			10095	Shin, 77
			10401	Shin, 74
			11168	Center, 72
			11325	Caledonia, 71
			14066	Chapuisat, 79
			14823	Center, 71
CO	+	NO	8169	Procaccia, 75
			9764	Doyennette, 77
			10401	Shin, 74
CO	+	O_2	9764	Doyennette, 77
			10401	Shin, 74
CO	+	OCS	11165	Lev-On, 72
CO	+	O_3	8898	Hui, 76

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CS	+	Ar	5714	Gauthier, 72
Cl_2	+	Cl	8169	Procaccia, 75
			10430	Thompson, 74
Cl_2	+	Cl_2	8207	Bergeron, 76
			10991	Wagner, 73
			11140	Shin, 72
			12633	Bergeron, 75
Cl_2	+	DCl	9082	Bass, 77
Cl_2	+	HCl	9082	Bass, 77
DCl	+	Br	9598	Smith, 77
DCl	+	Cl	7160	Smith, 75
			8087	Smith, 75
DCl	+	DCl	5435	Sentman, 73
			9082	Bass, 77
			12448	Shin, 70
D_2	+	D	12930	Ovchinnikova, 77
D_2	+	H	12930	Ovchinnikova, 77
D_2	+	He	8008	Cady, 76
			8211	Alexander, 76
			10193	Cady, 77
			12240	Billing, 78
D_2	+	CO	9764	Doyennette, 77
D_2	+	D_2	5407	Calvert, 72
			9152	Alexander, 77
			9211	Skodje, 77
			10302	Cohen, 74
			10889	Alexander, 73
			14872	Sorensen, 74
D_2	+	HD	11952	Wilson, 70
D_2	+	H_2	5407	Calvert, 72
D_2^{+1}	+	He	13054	Poppe, 78
D_2^{+1}	+	D_2	6917	Flannery, 75
			7905	Stocker, 74
DF	+	D	11177	Thompson, 72
DF	+	F	8169	Procaccia, 75
			9156	Shin, 77
			10557	Wilkins, 73
			11176	Thompson, 72
DF	+	H	11177	Thompson, 72
DF	+	DF	5435	Sentman, 73
			6778	Shin, 75
			9594	Shin, 76
			9749	Shin, 77
			10964	Berend, 73
			12482	Shin, 71
			14070	Wilkins, 79
			14857	Tam, 74
DF	+	HF	5435	Sentman, 73
			13974	Poulsen, 79
DF	+	N_2	5435	Sentman, 73
DF	+	NO	5435	Sentman, 73

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DF	+	CO_2	5396	Dillon, 73
			10428	Dillon, 74
			10974	Dillon, 73
DF			8143	Wassam Jr., 76
DI	+	DI	5435	Sentman, 73
DI	+	N_2	5435	Sentman, 73
F_2	+	Ar	8008	Cady, 76
			10193	Cady, 77
F_2	+	He	8008	Cady, 76
			10193	Cady, 77
F_2	+	F_2	10290	Lifshitz, 74
HBr	+	Br	10311	White, 74
HBr	+	H	10311	White, 74
HBr	+	He	14752	King, 79
HBr	+	HBr	5435	Sentman, 73
			5881	Stettler, 73
			7427	Misra, 74
			10969	Sharma, 73
HBr	+	H_2	14066	Chapuisat, 79
HCl	+	Ar	8143	Wassam Jr., 76
			11187	Sorensen, 72
HCl	+	Br	9406	Smith, 77
			9598	Smith, 77
HCl	+	Cl	6769	Wilkins, 75
			7160	Smith, 75
			7180	Wilkins, 75
			8087	Smith, 75
			11042	Thompson, 72
			11925	Shin, 78
HCl	+	H	6769	Wilkins, 75
			7180	Wilkins, 75
HCl	+	He	8143	Wassam Jr., 76
HCl	+	HBr	7427	Misra, 74
HCl	+	HCl	5435	Sentman, 73
			5881	Stettler, 73
			9082	Bass, 77
			10412	Shin, 74
			10969	Sharma, 73
			11423	Ewing, 78
			12448	Shin, 70
			12576	Sharma, 74
HCl	+	CO_2	5396	Dillon, 73
HD	+	D	12930	Ovchinnikova, 77
HD	+	H	12930	Ovchinnikova, 77
HD	+	HD	11952	Wilson, 70
			12633	Bergeron, 75
HF	+	Ar	10391	Shin, 74
			10968	Berend, 73
HF	+	D	11177	Thompson, 72
HF	+	F	8169	Procaccia, 75

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HF	+	F	8836	Shin, 76
			10557	Wilkins, 73
			11176	Thompson, 72
HF	+	H	10961	Wilkins, 73
			11177	Thompson, 72
HF	+	He	10294	Smith, 74
			14246	Ewing, 79
HF	+	D_2	5435	Sentman, 73
HF	+	DF	13974	Poulsen, 79
HF	+	HF	5435	Sentman, 73
			6778	Shin, 75
			7196	Shin, 75
			7696	Cohen, 76
			8147	Shin, 76
			9521	Steinfeld, 77
			10136	Wilkins, 77
			10559	Shin, 73
			10964	Berend, 73
			11423	Ewing, 78
			11924	Poulsen, 78
			12482	Shin, 71
			12589	Shin, 74
			12757	Billing, 78
			13922	Tabor, 79
			13965	Wilkins, 79
			14857	Tam, 74
HF	+	H_2	7427	Misra, 74
HF	+	N_2	5435	Sentman, 73
HF	+	NO	5435	Sentman, 73
HF	+	O_2	5435	Sentman, 73
HF	+	CO_2	5396	Dillon, 73
			10428	Dillon, 74
			10974	Dillon, 73
HF	+	H_2O	6948	Shin, 75
H_2	+	Ar	9233	Blais, 76
			10211	Dove, 77
			11335	Dove, 71
			15096	Wengle, 75
			15122	Truhlar, 79
H_2	+	Br	7986	Laing, 75
			10288	Zimmerman, 74
H_2	+	Cl	11042	Thompson, 72
H_2	+	D	12930	Ovchinnikova, 77
H_2	+	H	6754	Schinke, 75
			12930	Ovchinnikova, 77
			14752	King, 79
H_2	+	He	6713	McGuire, 75
			6718	Alexander, 75
			6754	Schinke, 75
			7207	Novak, 75
			7324	Alexander, 74
			7770	McKenzie, 76
			7871	Alexander, 76

H_2	+	He	7985	Alexander, 76
			8008	Cady, 76
			8010	Shin, 76
			8137	Alexander, 76
			8143	Wassam Jr., 76
			8203	Alexander, 76
			8368	Gerber, 76
			8805	Gianturco, 76
			9152	Alexander, 77
			9217	Augustin, 77
			9271	Alexander, 77
			9871	Eno, 77
			10193	Cady, 77
			10227	Tarr, 78
			10264	Rabitz, 75
			10423	Alexander, 74
			11187	Sorensen, 72
			12240	Billing, 78
			12263	Raczkowski, 78
			13988	Lin, 79
			14492	Eno, 79
			14542	Dove, 79
			14779	Dove, 79
			15256	Child, 70
H_2	+	I	11042	Thompson, 72
H_2	+	Li^{+1}	8114	Billing, 76
			8819	Alexander, 76
			10310	Raczkowski, 74
H_2	+	D_2	5407	Calvert, 72
			6334	Alexander, 74
			10302	Cohen, 74
			12587	Cohen, 74
H_2	+	HBr	14066	Chapuisat, 79
H_2	+	HCl	12941	Eberhardt, 78
H_2	+	H_2	5407	Calvert, 72
			7230	Jolicard, 75
			8713	Dwyer, 76
			8890	Billing, 76
			9071	Billing, 77
			9152	Alexander, 77
			9210	Ramaswamy, 77
			9211	Skodje, 77
			11033	Morse, 72
			11172	Shizgal, 72
			11335	Dove, 71
H_2	+	H_2	11423	Ewing, 78
			11952	Wilson, 70
			12633	Bergeron, 75
			13667	Kewley, 75
			14066	Chapuisat, 79
			14793	Shin, 79
			14872	Sorensen, 74
H_2	+	N_2	11033	Morse, 72
H_2^{+1}	+	He	13054	Poppe, 78
H_2^{+1}	+	H_2	6917	Flannery, 75
H_2^{+1}	+	H_2	7905	Stocker, 74
HI	+	HI	5435	Sentman, 73
HI	+	N_2	5435	Sentman, 73
I_2	+	Ar	10418	Rubinson, 74
I_2	+	H	14752	King, 79
I_2	+	He	10266	Billing, 75
			10418	Rubinson, 74
I_2	+	I	7687	Procaccia, 75
			8169	Procaccia, 75
			10430	Thompson, 74
I_2	+	Kr	10418	Rubinson, 74
I_2	+	Ne	10418	Rubinson, 74
I_2	+	Si	14785	Bowman, 79
I_2	+	Xe	10418	Rubinson, 74
I_2^*	+	I_2	11143	Poulsen, 72
			11290	Kato, 78
KBr	+	Ar	8496	Crim, 76
			9223	Matzen, 77
KBr	+	Ne	8496	Crim, 76
KBr	+	CO	8496	Crim, 76
KBr	+	N_2	8496	Crim, 76
KBr	+	CO_2	8496	Crim, 76
Li_2	+	Ar	9912	Kafri, 77
Li_2^*	+	Ar	8169	Procaccia, 75
N_2	+	Al	12443	Fisher, 70
N_2	+	Ar	10266	Billing, 75
			11587	Altick, 78
			14618	Akulintsev, 77
N_2	+	Cs	12443	Fisher, 70
			12573	Andreev, 73
			14824	Fisher, 71
N_2	+	He	8465	Sutherley, 76
N_2	+	K	12443	Fisher, 70
			12573	Andreev, 73
			14824	Fisher, 71
N_2	+	Li	12443	Fisher, 70
			12573	Andreev, 73
			13514	Zaritsky, 78
			14824	Fisher, 71
N_2	+	Li^{+1}	9119	Philipp, 77
N_2	+	Na	8857	Barker, 76
			12443	Fisher, 70
			12573	Andreev, 73
			14824	Fisher, 71
N_2	+	O	10570	Delos, 73
			11147	Fisher, 72
			15308	Nikitin, 72
N_2	+	Rb	12443	Fisher, 70
			12573	Andreev, 73

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N_2	+	Rb	14824	Fisher, 71
N_2	+	CO	7427	Misra, 74
			9764	Doyennette, 77
			10289	Shin, 74
			10401	Shin, 74
			11325	Caledonia, 71
			14066	Chapuisat, 79
			14618	Akulintsev, 77
N_2	+	DI	5435	Sentman, 73
N_2	+	HCl	5436	Berend, 72
N_2	+	HI	5435	Sentman, 73
N_2	+	N_2	7230	Jolicard, 75
			8847	Gordon, 76
			10290	Lifshitz, 74
			11059	Hsu, 72
			11140	Shin, 72
			11423	Ewing, 78
			11984	Hansen, 70
			12038	Hsu, 70
			12633	Bergeron, 75
			12973	Likalter, 78
			13667	Kewley, 75
			14066	Chapuisat, 79
			14618	Akulintsev, 77
			15028	Billing, 79
			15381	Meolans, 73
N_2	+	O_2	5436	Berend, 72
			13781	Jolicard, 78
			14066	Chapuisat, 79
			14618	Akulintsev, 77
N_2	+	CO_2	12941	Eberhardt, 78
N_2	+	H_2O	14055	Nagel, 79
NO	+	Ar	5434	Andreev, 73
			15308	Nikitin, 72
NO	+	Br	9402	Quack, 77
NO	+	Cl	9402	Quack, 77
NO	+	F	9402	Quack, 77
NO	+	H	9402	Quack, 77
NO	+	I	9402	Quack, 77
NO	+	O	9402	Quack, 77
NO	+	N_2	10401	Shin, 74
NO	+	NO	11423	Ewing, 78
NO^{+1}	+	N_2	12948	Ruderman, 78
OD	+	CO_2	5427	Basov, 72
OH	+	H	9402	Quack, 77
$OH^{\cdot}$	+	Ar	12517	Smith, 72
$OH^{\cdot}$	+	N_2	12233	Llewellyn, 78
O_2	+	Ar	8465	Sutherley, 76
			10290	Lifshitz, 74
			11187	Sorensen, 72
			11984	Hansen, 70

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O_2	+	Ar	14618	Akulintsev, 77
			15096	Wengle, 75
O_2	+	He	8465	Sutherley, 76
			8847	Gordon, 76
			10147	Gordon, 77
			10290	Lifshitz, 74
			11984	Hansen, 70
O_2	+	O	9402	Quack, 77
			15308	Nikitin, 72
O_2	+	H_2	10290	Lifshitz, 74
			11984	Hansen, 70
O_2	+	N_2	13781	Jolicard, 78
			14066	Chapuisat, 79
O_2	+	O_2	8207	Bergeron, 76
			10290	Lifshitz, 74
			10991	Wagner, 73
			11140	Shin, 72
			11423	Ewing, 78
			11984	Hansen, 70
			12776	Capitelli, 78
$O_2^{\cdot}$	+	O_2	15374	Parker, 72
CO_2	+	Ar	5946	Andreev, 73
			6520	Rityn, 74
			8370	Jolicard, 76
			11376	Huetz-Aubert, 71
			14939	Sato, 71
			15229	Andreev, 73
CO_2	+	He	5946	Andreev, 73
			6520	Rityn, 74
			8370	Jolicard, 76
			11376	Huetz-Aubert, 71
			15229	Andreev, 73
CO_2	+	Kr	8370	Jolicard, 76
			11901	Bowman, 78
CO_2	+	Ne	8208	Shin, 76
			8370	Jolicard, 76
			11376	Huetz-Aubert, 71
CO_2	+	Xe	6520	Rityn, 74
			8370	Jolicard, 76
			11376	Huetz-Aubert, 71
CO_2	+	D_2	7775	Stricker, 76
			9077	Sathyamurthy, 77
			9973	Shin, 77
			12560	Simpson, 73
CO_2	+	DF	6277	Shin, 74
			6962	Gait, 75
			11163	Shin, 72
CO_2	+	HCl	6962	Gait, 75
CO_2	+	HD	12560	Simpson, 73
CO_2	+	HF	6277	Shin, 74
			6962	Gait, 75
			11163	Shin, 72
CO_2	+	H_2	7775	Stricker, 76

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CO_2	+	H_2	9077	Sathyamurthy, 77
			9097	Tsuchiya, 76
			9973	Shin, 77
			12487	Kolker, 71
			12560	Simpson, 73
CO_2	+	HI	6962	Gait, 75
CO_2	+	N_2	6716	Sharma, 75
			7162	Inoue, 75
			8903	Chow Chiu, 76
			11376	Huetz-Aubert, 71
			12498	Andreev, 71
			14758	Billing, 79
CO_2	+	CO_2	5946	Andreev, 73
			8208	Shin, 76
			8814	Fujimoto, 76
			11376	Huetz-Aubert, 71
			12052	Tripodi, 70
			12112	Huetz-Aubert, 71
			14895	Eletskii, 71
			14939	Sato, 71
			15090	Babiano, 75
			15104	Dupre, 75
CO_2	+	H_2O	12086	Sharma, 71
CO_2	+	BCl_3	12045	Stephenson, 70
CO_2	+	CH_3Br	12045	Stephenson, 70
CO_2	+	CH_3Cl	12045	Stephenson, 70
CO_2	+	CH_3F	12045	Stephenson, 70
CO_2	+	CH_4	12237	Lawley, 78
CO_2	+	CH_3I	12045	Stephenson, 70
CO_2	+	C_2H_4	12045	Stephenson, 70
CO_2	+	SF_6	12045	Stephenson, 70
$CO_2^{\cdot}$	+	N_2	12428	Sato, 70
D_2O	+	D_2O	13994	Kim, 79
H_2O	+	H_2O	9622	Shin, 77
			12011	Shin, 78
N_2O	+	N_2	12928	Picard-Berselli, 78
OCS	+	D_2	12560	Simpson, 73
OCS	+	HD	12560	Simpson, 73
OCS	+	H_2	12560	Simpson, 73
O_3	+	O	8834	West, 76
O_3	+	OCS	8898	Hui, 76
SO_2	+	SO_2	14233	Rao, 79
SO_2	+	CH_4	12237	Lawley, 78
BCl_3	+	DCl	10967	Poulsen, 73
BCl_3	+	D_2	10967	Poulsen, 73
BCl_3	+	HCl	10967	Poulsen, 73
BCl_3	+	HD	10967	Poulsen, 73
BCl_3	+	H_2	10967	Poulsen, 73
ND_3	+	ND_3	6639	Starr, 75

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NH_3	+	He	11037	Fabris, 72
NH_3	+	H_2	11037	Fabris, 72
NH_3	+	NH_3	6639	Starr, 75
CF_4	+	CF_4	9412	Kadibelban, 77
CH_2D_2	+	Ar	12984	Apkarian, 78
CH_2D_2	+	He	12984	Apkarian, 78
CH_2D_2	+	Kr	12984	Apkarian, 78
CH_2D_2	+	Ne	12984	Apkarian, 78
CH_2D_2	+	Xe	12984	Apkarian, 78
CH_2D_2	+	CH_2D_2	12984	Apkarian, 78
CH_3Br	+	Ar	11892	Miklavc, 78
			15023	Zygan-Maus, 79
CH_3Br	+	He	11892	Miklavc, 78
			15023	Zygan-Maus, 79
CH_3Br	+	Kr	11892	Miklavc, 78
			15023	Zygan-Maus, 79
CH_3Br	+	Ne	11892	Miklavc, 78
			15023	Zygan-Maus, 79
CH_3Br	+	Xe	11892	Miklavc, 78
			15023	Zygan-Maus, 79
CH_3Cl	+	Ar	8846	Miklavc, 76
			11892	Miklavc, 78
			15023	Zygan-Maus, 79
CH_3Cl	+	He	8846	Miklavc, 76
			11892	Miklavc, 78
			15023	Zygan-Maus, 79
CH_3Cl	+	Kr	8846	Miklavc, 76
			11892	Miklavc, 78
			15023	Zygan-Maus, 79
CH_3Cl	+	Ne	8846	Miklavc, 76
			11892	Miklavc, 78
			15023	Zygan-Maus, 79
CH_3Cl	+	Xe	8846	Miklavc, 76
			11892	Miklavc, 78
			15023	Zygan-Maus, 79
CH_3F	+	Ar	11892	Miklavc, 78
			15023	Zygan-Maus, 79
CH_3F	+	He	11892	Miklavc, 78
			15023	Zygan-Maus, 79
CH_3F	+	Kr	11892	Miklavc, 78
			15023	Zygan-Maus, 79
CH_3F	+	Ne	11892	Miklavc, 78
			15023	Zygan-Maus, 79
CH_3F	+	Xe	11892	Miklavc, 78
			15023	Zygan-Maus, 79
CH_4	+	Ar	9524	De Vasconcelos, 77
CH_4	+	He	9524	De Vasconcelos, 77
CH_4	+	Kr	9524	De Vasconcelos, 77
CH_4	+	Ne	9524	De Vasconcelos, 77

ORIGINAL DATA

CH_4	+	CH_4	9073	Janiesch, 76
			9524	De Vasconcelos, 77
			11510	Ulrich, 78
			14613	Ulrich, 79
CH_3I	+	Ar	15023	Zygan-Maus, 79
CH_3I	+	He	15023	Zygan-Maus, 79
CH_3I	+	Kr	15023	Zygan-Maus, 79
CH_3I	+	Ne	15023	Zygan-Maus, 79
CH_3I	+	Xe	15023	Zygan-Maus, 79
SiH_4	+	SiH_4	9073	Janiesch, 76
CD_3OD	+	CD_3OD	14807	Chalapati Rao, 79
CD_3OH	+	CD_3OH	14807	Chalapati Rao, 79
CH_3CN	+	CH_3CN	10874	Bunker, 73
CH_3OD	+	CH_3OD	14807	Chalapati Rao, 79
CH_3OH	+	CH_3OH	14807	Chalapati Rao, 79
MoF_6	+	MoF_6	15375	Doi, 73
SF_6	+	SF_6	15375	Doi, 73
UF_6	+	UF_6	15375	Doi, 73
WF_6	+	WF_6	15375	Doi, 73
C_3H_6	+	Ar	15212	Fujimoto, 79
C_3H_6	+	He	15212	Fujimoto, 79
C_3H_6	+	Kr	15212	Fujimoto, 79
C_3H_6	+	Ne	15212	Fujimoto, 79
C_3H_6	+	Xe	15212	Fujimoto, 79
- -			13802	Sire, 78

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CO	+	He	7755	Shizgal, 76
CO	+	CO	13544	Bray, 70
			15126	Wassam Jr., 79
DCl	+	D	14245	Weston Jr., 79
DCl	+	H	14245	Weston Jr., 79
HBr	+	Br	6632	Shin, 75
HCl	+	Cl	6632	Shin, 75
HCl	+	D	14245	Weston Jr., 79
HCl	+	H	14245	Weston Jr., 79
HF	+	F	6632	Shin, 75
HF	+	H	7061	Shin, 75
HF	+	HF	10332	Procaccia, 75
HI	+	Cl	6632	Shin, 75
N_2	+	CO_2	5425	Brunet, 72
N_2			15004	Anketell, 70
CO_2	+	Ar	8246	Gulyaeva, 75
CO_2	+	Ne	8246	Gulyaeva, 75
CO_2	+	N_2	5425	Brunet, 72
			8246	Gulyaeva, 75
CO_2	+	CO_2	8246	Gulyaeva, 75

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CO_2	+	H_2O	8235	Andreev, 76
N_2O			13991	Alamichel, 78
- -			7226	Gentry, 75
			7295	Sazonov, 75
			7633	Ovchinnikova, 75
			7686	Jolicard, 76
			7690	Nanbu, 75
			8021	Penner, 75
			8101	Fleming, 75
			8130	Hopf, 76
			8827	Pilling, 76
			8928	Stettler, 76
			8929	Gait, 76
			8931	Ficocelli Varracc, 76
			9103	Makowski, 76
			9290	Schatz, 77
			9561	Nikitin, 76
			9564	Connor, 76
			9565	Procaccia, 76
			9601	Yau, 77
			9762	Lam, 77
			9981	Gavrikov, 76
			10149	Dougherty, 77
			10155	Zheleznyak, 76
			10238	Oref, 77
			10337	Kutz, 74
			10340	Kay, 74
			10344	Nordholm, 74
			10347	Cady, 74
			10432	Nordholm, 74
			10433	Keizer, 74
			10434	Eastes, 74
			10441	Lahmani, 74
			10894	Hunter, 73
			10902	Weare, 73
			11063	Davis, 72
			11067	Fowler, 72
			11071	Secrest, 72
			11075	Lin, 72
			11081	Chiu, 72
			11082	Kelley, 72
			11124	Paerschke, 77
			11126	Muhle, 77
			11210	Bauer, 72
			11213	Wilson, 72
			11381	Morawitz, 71
			11391	Clarke, 71
			11395	Chiu, 71
			11402	Wong, 71
			11409	Jolicard, 78
			11523	Naidis, 76
			11911	Malins, 78
			11927	Rand, 70
			11959	Kelley, 70
			11965	Hsu, 70
			11992	Kelley, 70
			12019	Attermeyer, 70
			12073	Gelbart, 70

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- -	12145	Diestler, 71
	12191	Novikova, 76
	12197	Lizengevich, 78
	12514	Tam, 72
	12533	Kiefer, 72
	12540	Shin, 73
	12549	Breshears, 73
	12597	Shin, 74
	12607	Bergeron, 74
	12619	Manz, 75
	12851	Ben-Shaul, 78
	12853	Herrick, 78
	12881	Jensen, 78
	12966	Zheleznyak, 76
	12968	Kalanov, 76
	12969	Nikitin, 78
	13220	Caledonia, 72
	13416	Ben-Aryeh, 74
	14249	Levine, 79
	14253	Wassam Jr., 79
	14611	Shamah, 78
	14644	Avramides, 79
	14645	Zinovev, 77
	14804	Feldmann, 79
	14847	Tam, 72
	14869	Clarke, 74
	14881	Nikitin, 73
	14963	Huetz-Aubert, 74
	14992	Brau, 72
	15006	Callear, 78
	15074	Gordon, 79
	15084	Safaryan, 70
	15093	Rich, 70
	15103	Scott, 74
	15193	Rogovin, 73
	15227	Safaryan, 72
	15228	Gordiets, 74
	15230	Dashevskaya, 70
	15371	Shields, 70
	15380	Huetz-Aubert, 73
	15419	Ender, 71

ELECTRONIC RELAXATION EXPERIMENTAL

REVIEW

Ar^*	14034	Golde, 77
He^*	14034	Golde, 77
Kr^*	14034	Golde, 77
Ne^*	14034	Golde, 77
O^*	14428	Schofield, 78
Xe^*	14034	Golde, 77
- -	10000	King, 76
	10553	Lemont, 77
	15156	Doering, 73

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Ar	+	Ar	6573	Dunn, 75
			10271	Liu, 75
			13015	Grandin, 78
Ar	+	He	13015	Grandin, 78
Ar	+	Kr	5764	Piper, 73
			13015	Grandin, 78
Ar	+	Ne	13015	Grandin, 78
Ar	+	Xe	5764	Piper, 73
Ar	+	CO	5764	Piper, 73
			6573	Dunn, 75
Ar	+	Cl_2	5764	Piper, 73
Ar	+	D_2	5764	Piper, 73
Ar	+	HBr	5764	Piper, 73
Ar	+	HCl	5764	Piper, 73
Ar	+	H_2	5764	Piper, 73
			6573	Dunn, 75
			10660	Sternberg, 77
Ar	+	HI	5764	Piper, 73
Ar	+	N_2	5764	Piper, 73
			6339	Bochkova, 74
			6573	Dunn, 75
			6781	Lee, 75
			8838	Sanders, 76
			9572	Le Calve, 77
			13263	Bochkova, 71
Ar	+	NO	5764	Piper, 73
			6573	Dunn, 75
Ar	+	O_2	5764	Piper, 73
			6573	Dunn, 75
Ar	+	BrCN	5764	Piper, 73
Ar	+	CO_2	5764	Piper, 73
Ar	+	CS_2	5764	Piper, 73
Ar	+	HCN	5764	Piper, 73
Ar	+	N_2O	5764	Piper, 73
Ar	+	OCS	5764	Piper, 73
Ar	+	C_2H_2	5764	Piper, 73
			6573	Dunn, 75
Ar	+	CF_4	5764	Piper, 73
Ar	+	CHF_3	5764	Piper, 73
Ar	+	CH_4	5764	Piper, 73
			6573	Dunn, 75
Ar	+	C_2H_4	7321	Hurst, 74
Ar	+	SF_6	5764	Piper, 73
			9572	Le Calve, 77
Ar	+	C_2H_6	5764	Piper, 73
Ar	+	C_3H_8	5764	Piper, 73
Ar	+	C_4H_{10}	5764	Piper, 73
Ar^*	+	Ar	7073	Bourene, 75

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Ar^*	+	Ar	7431	Copley, 75
			11916	Kolts, 78
			12769	King, 77
			13009	Nguyen, 78
			13018	Chang, 78
			13346	Catherinot, 78
			14960	Grandin, 73
Ar^*	+	Cl	7197	King, 75
			9072	King, 77
			14651	Setser, 78
Ar^*	+	H	11426	Clyne, 78
			14651	Setser, 78
			14751	Monkhouse, 76
Ar^*	+	He	14960	Grandin, 73
Ar^*	+	Kr	5418	Bourene, 73
			7285	Piper, 75
			14108	Velazco, 78
			14651	Setser, 78
			14960	Grandin, 73
Ar^*	+	Ne	5796	Gersh, 73
			14960	Grandin, 73
Ar^*	+	O	9072	King, 77
			12600	Piper, 74
			14651	Setser, 78
Ar^*	+	Xe	5418	Bourene, 73
			6390	Klots, 74
			9072	King, 77
			12223	Chen, 78
			14108	Velazco, 78
			14651	Setser, 78
Ar^*	+	Br_2	8897	Velazco, 76
Ar^*	+	CO	5418	Bourene, 73
			7073	Bourene, 75
			7243	Boxall, 75
			12581	De Jong, 74
			15309	Piper, 72
Ar^*	+	Cl_2	14108	Velazco, 78
Ar^*	+	D_2	5418	Bourene, 73
			14108	Velazco, 78
			15309	Piper, 72
Ar^*	+	F_2	8897	Velazco, 76
			12223	Chen, 78
			14108	Velazco, 78
Ar^*	+	HBr	7318	Fraites, 76
			14108	Velazco, 78
Ar^*	+	HCl	8897	Velazco, 76
			15309	Piper, 72
Ar^*	+	H_2	5418	Bourene, 73
			7073	Bourene, 75
			7243	Boxall, 75
			10220	McKenney, 77
			11043	Fink, 72
			14108	Velazco, 78

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Ar^*	+	H_2	15045	Bochkova, 78
			15309	Piper, 72
Ar^*	+	HI	8897	Velazco, 76
			14108	Velazco, 78
Ar^*	+	ICl	8897	Velazco, 76
Ar^*	+	N_2	5418	Bourene, 73
			7243	Boxall, 75
			7820	Martin, 75
			9766	Kolts, 77
			10320	Winicur, 74
			10661	Krenos, 77
			10918	Le Calve, 73
			12203	Parr, 78
			12581	De Jong, 74
			12944	Firestone, 78
			14050	Bennett 78
			14108	Velazco, 78
			14651	Setser, 78
			15309	Piper, 72
Ar^*	+	NO	5418	Bourene, 73
			7243	Boxall, 75
			11008	Klots, 72
Ar^*	+	O_2	5418	Bourene, 73
			5796	Gersh, 73
			7243	Boxall, 75
Ar^*	+	BrCN	8897	Velazco, 76
Ar^*	+	CO_2	5418	Bourene, 73
			12229	Fraites, 78
Ar^*	+	CS_2	5418	Bourene, 73
Ar^*	+	D_2O	11907	Sheldon, 78
Ar^*	+	H_2O	5418	Bourene, 73
			11907	Sheldon, 78
			12581	De Jong, 74
Ar^*	+	H_2S	5418	Bourene, 73
			14108	Velazco, 78
Ar^*	+	N_2O	5418	Bourene, 73
Ar^*	+	NOCl	8897	Velazco, 76
Ar^*	+	OCS	5418	Bourene, 73
Ar^*	+	OF_2	8897	Velazco, 76
Ar^*	+	SO_2	5418	Bourene, 73
			14108	Velazco, 78
Ar^*	+	C_2H_2	5418	Bourene, 73
			11008	Klots, 72
			13756	Moseley, 72
Ar^*	+	$COCl_2$	14108	Velazco, 78
Ar^*	+	ND_3	5418	Bourene, 73
Ar^*	+	NF_3	8897	Velazco, 76
			14108	Velazco, 78
Ar^*	+	NH_3	5418	Bourene, 73
Ar^*	+	PCl_3	8897	Velazco, 76
Ar^*	+	$SOCl_2$	14108	Velazco, 78

Ar^*	+	S_2Cl_2	14108	Velazco, 78
Ar^*	+	$CBrF_3$	14108	Velazco, 78
Ar^*	+	CCl_4	5418	Bourene, 73
Ar^*	+	CCl_3F	14108	Velazco, 78
Ar^*	+	CD_4	5418	Bourene, 73
Ar^*	+	CF_3Cl	14108	Velazco, 78
Ar^*	+	CF_3I	14108	Velazco, 78
Ar^*	+	$CHCl_3$	5418	Bourene, 73
Ar^*	+	CH_2Cl_2	5418	Bourene, 73
Ar^*	+	CH_3Br	5418	Bourene, 73
Ar^*	+	CH_3Cl	5418	Bourene, 73
Ar^*	+	CH_3F	5418	Bourene, 73
			14108	Velazco, 78
Ar^*	+	CH_4	5418	Bourene, 73
			12581	De Jong, 74
Ar^*	+	CH_3I	5418	Bourene, 73
Ar^*	+	SF_4	14108	Velazco, 78
Ar^*	+	SO_2F_2	8897	Velazco, 76
			14108	Velazco, 78
Ar^*	+	C_2H_4	5418	Bourene, 73
			11008	Klots, 72
			14108	Velazco, 78
Ar^*	+	CF_2Cl_3	14108	Velazco, 78
Ar^*	+	CH_3CN	5418	Bourene, 73
Ar^*	+	N_2F_4	8897	Velazco, 76
Ar^*	+	SF_6	5418	Bourene, 73
			14108	Velazco, 78
Ar^*	+	SeF_6	8897	Velazco, 76
Ar^*	+	TeF_6	8897	Velazco, 76
Ar^*	+	C_2H_6	5418	Bourene, 73
			12581	De Jong, 74
Ar^*	+	C_3H_6	11008	Klots, 72
Ar^*	+	C_3H_8	5418	Bourene, 73
			12581	De Jong, 74
Ar^*	+	$C_6H_4Cl_2$	12581	De Jong, 74
Ar^*	+	C_6H_5Cl	12581	De Jong, 74
Ar^*	+	C_6H_6	5418	Bourene, 73
			12581	De Jong, 74
Ar^*	+	C_4H_{10}	5418	Bourene, 73
			12581	De Jong, 74
Ar^{+1}	+	Ar	10399	Liu, 74
As^*	+	He	15151	Bevan, 75
As^*	+	Xe	15151	Bevan, 75
As^*	+	Cl_2	14540	Husain, 77
As^*	+	D_2	15151	Bevan, 75

As^*	+	NO	14540	Husain, 77
			15151	Bevan, 75
As^*	+	O_2	14540	Husain, 77
			15151	Bevan, 75
As^*	+	CO_2	15151	Bevan, 75
As^*	+	N_2O	14540	Husain, 77
			15151	Bevan, 75
As^*	+	$AsCl_3$	14540	Husain, 77
As^*	+	C_2H_2	14540	Husain, 77
As^*	+	CH_4	15151	Bevan, 75
As^*	+	C_2H_4	14540	Husain, 77
			15151	Bevan, 75
B	+	Ar	9113	Hannaford, 77
B	+	Kr	9113	Hannaford, 77
B	+	Ne	9113	Hannaford, 77
B	+	Xe	9113	Hannaford, 77
Ba^*	+	CO	14493	Eversole, 79
Ba^*	+	D_2	14493	Eversole, 79
Ba^*	+	H_2	14493	Eversole, 79
Ba^*	+	N_2	14493	Eversole, 79
Ba^{+1}	+	Ar	10148	Buttler, 78
Ba^{+1}	+	Ba	14078	Kelly, 78
Ba^{+1}	+	He	10148	Buttler, 78
Ba^{+1}	+	Kr	10148	Buttler, 78
Ba^{+1}	+	Ne	10148	Buttler, 78
Ba^{+1}	+	Xe	10148	Buttler, 78
Bi	+	Ar	9626	Trainor, 77
Bi	+	Kr	9626	Trainor, 77
Bi	+	CO	9626	Trainor, 77
Bi	+	D_2	9626	Trainor, 77
Bi	+	H_2	9626	Trainor, 77
Bi	+	N_2	9626	Trainor, 77
Bi	+	CO_2	9626	Trainor, 77
Bi	+	SF_6	9626	Trainor, 77
Bi^*	+	Ar	9194	Trainor, 77
Bi^*	+	He	8428	Bevan, 76
Bi^*	+	Xe	8428	Bevan, 76
			9194	Trainor, 77
Bi^*	+	CO	8428	Bevan, 76
			9194	Trainor, 77
Bi^*	+	D_2	8428	Bevan, 76
			9194	Trainor, 77
Bi^*	+	H_2	8428	Bevan, 76
			9194	Trainor, 77
Bi^*	+	N_2	8428	Bevan, 76

Bi^*	+	N_2	9194	Trainor,	77
Bi^*	+	O_2	8428	Bevan,	76
			9194	Trainor,	77
Bi^*	+	CO_2	8428	Bevan,	76
			9194	Trainor,	77
Bi^*	+	N_2O	8428	Bevan,	76
Bi^*	+	C_2H_4	8428	Bevan,	76
Bi^*	+	SF_6	9194	Trainor,	77
Br^*	+	Br_2	8418	Hariri,	76
			10098	Hariri,	77
			11292	Hariri,	78
Br^*	+	D_2	8291	Wiesenfeld,	76
			14508	Grimley,	79
Br^*	+	HBr	5969	Leone,	74
Br^*	+	HCl	5969	Leone,	74
			11312	Reisler,	78
Br^*	+	HD	8291	Wiesenfeld,	76
			14508	Grimley,	79
Br^*	+	HF	7870	Wodarczyk,	76
Br^*	+	H_2	8291	Wiesenfeld,	76
			14508	Grimley,	79
Br^*	+	HI	7337	Bergmann,	75
Br^*	+	CO_2	7697	Petersen,	75
			10098	Hariri,	77
			11312	Reisler,	78
			12950	Reisler,	78
Br^*	+	CS_2	10098	Hariri,	77
Br^*	+	HCN	8418	Hariri,	76
Br^*	+	H_2O	11292	Hariri,	78
Br^*	+	N_2O	7697	Petersen,	75
Br^*	+	OCS	10098	Hariri,	77
C^*	+	Ar	11040	Tschuikow-Roux,	72
Ca	+	Ar	9099	Kosasa,	77
Cd	+	Ar	11467	Laniepce,	77
			13262	Aleksandrov,	71
Cd	+	He	11467	Laniepce,	77
			13262	Aleksandrov,	71
Cd	+	Kr	11467	Laniepce,	77
Cd	+	Ne	11467	Laniepce,	77
			13262	Aleksandrov,	71
Cd	+	Xe	11467	Laniepce,	77
			13262	Aleksandrov,	71
Cd	+	N_2	11467	Laniepce,	77
Cd	+	NO	8837	Breckenridge,	76
Cd^*	+	Ar	6446	Breckenridge,	74
			14054	Breckenridge,	78
			14956	Laniepce,	70
Cd^*	+	Cd	12205	Alipieva,	77

Cd^*	+	Cs	14959	Laniepce,	72
Cd^*	+	Cs	15051	Kartasheva,	78
Cd^*	+	He	6043	Tibilov,	73
			6446	Breckenridge,	74
			14054	Breckenridge,	78
			14956	Laniepce,	70
Cd^*	+	Kr	14956	Laniepce,	70
Cd^*	+	Ne	12205	Alipieva,	77
			14956	Laniepce,	70
Cd^*	+	Xe	14956	Laniepce,	70
Cd^*	+	CO	14054	Breckenridge,	78
			14231	Breckenridge,	79
Cd^*	+	D_2	6446	Breckenridge,	74
			14054	Breckenridge,	78
			14231	Breckenridge,	79
			15024	Umemoto,	79
Cd^*	+	HD	6446	Breckenridge,	74
			14054	Breckenridge,	78
Cd^*	+	H_2	6446	Breckenridge,	74
			14054	Breckenridge,	78
			14231	Breckenridge,	79
			15024	Umemoto,	79
Cd^*	+	N_2	6446	Breckenridge,	74
			14054	Breckenridge,	78
			14231	Breckenridge,	79
			14864	Czajkowski,	74
			14956	Laniepce,	70
			14959	Laniepce,	72
			15024	Umemoto,	79
			15063	Bulyshev,	79
Cd^*	+	NO	14054	Breckenridge,	78
Cd^*	+	CO_2	14054	Breckenridge,	78
			14231	Breckenridge,	79
Cd^*	+	NH_3	14054	Breckenridge,	78
Cd^*	+	CF_4	14054	Breckenridge,	78
Cd^*	+	CH_4	6446	Breckenridge,	74
			14231	Breckenridge,	79
			15024	Umemoto,	79
Cd^*	+	C_2H_4	6446	Breckenridge,	74
Cd^*	+	SF_6	6446	Breckenridge,	74
			14054	Breckenridge,	78
Cd^{+1}	+	He	15409	Hamel,	74
Cl^*	+	Ar	11089	Fletcher,	78
Cl^*	+	He	9773	Fletcher,	77
			11089	Fletcher,	78
Cl^*	+	Kr	11089	Fletcher,	78
Cl^*	+	Ne	11089	Fletcher,	78
Cl^*	+	Xe	11089	Fletcher,	78
Cl^*	+	Cl_2	9773	Fletcher,	77
Cl^*	+	O_2	9773	Fletcher,	77

Cl^*	+	CCl_4	9773	Fletcher, 77
Cs	+	Ar	7019	Cuvellier, 75
			10461	Dmitrieva, 77
			13717	Beverini, 71
Cs	+	Cs	9908	Pendrill, 77
			13717	Beverini, 71
Cs	+	He	7019	Cuvellier, 75
			10461	Dmitrieva, 77
			10662	Franz, 77
			13717	Beverini, 71
Cs	+	Kr	7019	Cuvellier, 75
Cs	+	Ne	7019	Cuvellier, 75
			10662	Franz, 77
			13717	Beverini, 71
Cs	+	Xe	7019	Cuvellier, 75
			10461	Dmitrieva, 77
Cs	+	H_2	8212	Lukaszewicz, 75
			10461	Dmitrieva, 77
Cs	+	N_2	6753	Kielkopf, 75
			10461	Dmitrieva, 77
			13717	Beverini, 71
Cs^*	+	Ar	5718	Cuvellier, 73
			13252	Altman, 70
			14858	Siara, 74
Cs^*	+	Cs	9381	Deech, 77
			11470	Yabuzaki, 78
			12192	Tam, 78
Cs^*	+	He	5718	Cuvellier, 73
			11937	Dashevskaya, 70
			14858	Siara, 74
Cs^*	+	Kr	5718	Cuvellier, 73
			14858	Siara, 74
Cs^*	+	Ne	5718	Cuvellier, 73
			9643	Legowski, 77
			14858	Siara, 74
Cs^*	+	Xe	5718	Cuvellier, 73
			14858	Siara, 74
Cs^*	+	D_2	14856	Walentynowicz, 74
Cs^*	+	HD	14856	Walentynowicz, 74
Cs^*	+	H_2	5921	Lijnse, 73
			7843	Krause, 75
			14856	Walentynowicz, 74
Cs^*	+	N_2	5921	Lijnse, 73
			7843	Krause, 75
			13437	Franz, 75
Cs^*	+	O_2	5921	Lijnse, 73
Cs^*	+	H_2O	5921	Lijnse, 73
Cs^*	+	CD_4	7843	Krause, 75
			14855	Walentynowicz, 74
Cs^*	+	CD_3H	14855	Walentynowicz, 74
Cs^*	+	CH_2D_2	14855	Walentynowicz, 74
Cs^*	+	CH_3D	14855	Walentynowicz, 74
Cs^*	+	CH_4	7843	Krause, 75
			14855	Walentynowicz, 74
Cs^*	+	C_2H_6	14856	Walentynowicz, 74
Cs^*	+	C_3H_8	14856	Walentynowicz, 74
Cu^*	+	Ar	8123	Trainor, 76
Cu^*	+	He	8123	Trainor, 76
Cu^*	+	Xe	8123	Trainor, 76
Cu^*	+	CO	8123	Trainor, 76
Cu^*	+	N_2	8123	Trainor, 76
Cu^*	+	O_2	8123	Trainor, 76
Cu^*	+	CO_2	8123	Trainor, 76
Cu^*	+	SF_6	8123	Trainor, 76
D^*	+	Xe	12046	Wood, 70
D^*	+	DCl	12046	Wood, 70
D^*	+	H_2	13208	Dose, 71
D^*	+	N_2	14734	Koch, 79
D^*	+	CO_2	12046	Wood, 70
D^*	+	CF_4	12046	Wood, 70
Eu	+	Ar	9581	Sahm, 77
Eu	+	He	9581	Sahm, 77
Eu	+	Kr	9581	Sahm, 77
Eu	+	Ne	9581	Sahm, 77
Eu	+	Xe	9581	Sahm, 77
Eu^*	+	Eu	10097	Karlov, 77
Ge	+	He	8509	Brown, 76
Ge	+	Xe	8509	Brown, 76
Ge	+	CO	8509	Brown, 76
Ge	+	NO	8509	Brown, 76
Ge	+	O_2	8509	Brown, 76
Ge	+	$GeBr_4$	8509	Brown, 76
Ge^*	+	Xe	11090	Chowdhury, 77
Ge^*	+	CO	11090	Chowdhury, 77
Ge^*	+	D_2	11090	Chowdhury, 77
Ge^*	+	H_2	11090	Chowdhury, 77
Ge^*	+	N_2	11090	Chowdhury, 77
Ge^*	+	NO	11090	Chowdhury, 77
Ge^*	+	O_2	11090	Chowdhury, 77
Ge^*	+	CO_2	11090	Chowdhury, 77
Ge^*	+	N_2O	11090	Chowdhury, 77
Ge^*	+	C_2H_2	11090	Chowdhury, 77
Ge^*	+	CF_4	11090	Chowdhury, 77
Ge^*	+	CHF_3	11090	Chowdhury, 77

Ge^*	+	CH_4	11090	Chowdhury,	77
Ge^*	+	C_2H_4	11090	Chowdhury,	77
Ge^*	+	SF_6	11090	Chowdhury,	77
H	+	Ar	9865	Roussel,	77
H	+	He	9865	Roussel,	77
H	+	Kr	9865	Roussel,	77
H	+	Ne	9865	Roussel,	77
H	+	Xe	9865	Roussel,	77
H	+	H_2	8842	Lewis,	76
			9865	Roussel,	77
			13008	Dubreuil,	78
H	+	C_2D_4	15344	Gordon,	73
H	+	C_2H_4	15344	Gordon,	73
H	+	C_3H_6	15344	Gordon,	73
H^*	+	Ar	5365	Kass,	73
			7185	Dose,	75
			7821	Roussel,	75
			9893	Ryan,	77
			13184	Byron Jr.,	70
			13629	Gilbody,	74
			13746	Krotkov,	72
			14289	McKee,	79
H^*	+	Cs	13425	Pradel,	74
H^*	+	D	15048	Follmer,	79
H^*	+	He	5365	Kass,	73
			7185	Dose,	75
			7821	Roussel,	75
			9893	Ryan,	77
			11968	Braun,	70
			13184	Byron Jr.,	70
			13199	Kass,	71
			13223	Dose,	74
			13629	Gilbody,	74
			13746	Krotkov,	72
			14289	McKee,	79
H^*	+	Kr	5365	Kass,	73
			9111	Roussel,	77
			9893	Ryan,	77
			13629	Gilbody,	74
			14289	McKee,	79
H^*	+	Ne	9111	Roussel,	77
			9893	Ryan,	77
			13184	Byron Jr.,	70
			14289	McKee,	79
H^*	+	Xe	9111	Roussel,	77
			9893	Ryan,	77
H^*	+	D_2	11968	Braun,	70
H^*	+	H_2	7821	Roussel,	75
			9111	Roussel,	77
			9893	Ryan,	77
			11968	Braun,	70
			13144	Catherinot,	78
			13184	Byron Jr.,	70
			13234	Dose,	74
			13629	Gilbody,	74
			14289	McKee,	79
H^*	+	N_2	9893	Ryan,	77
			11968	Braun,	70
			12047	Shukla,	70
			13184	Byron Jr.,	70
			13629	Gilbody,	74
H^*	+	O_2	12047	Shukla,	70
H^*	+	H_2O	12047	Shukla,	70
			14510	Quickenden,	79
H^*	+	NH_3	9893	Ryan,	77
H^*	+	CH_3OH	9893	Ryan,	77
He	+	He	10871	Dotchin,	73
			13246	Vasilenko,	70
He	+	Ne	10402	Arrathoon,	74
He	+	N_2	8838	Sanders,	76
He^*	+	Ar	5754	Bogdanova,	73
			6368	Lindinger,	74
			8908	Nayfeh,	76
			8987	Lee,	76
			9383	Brutschy,	76
			10686	Tolmachev,	77
			11105	Pitchford,	78
			11978	Schmeltekopf,	70
			12228	McCullough,	78
			13660	Maio,	75
			13756	Moseley,	72
			14724	Yokoyama,	79
			14732	Hitachi,	79
He^*	+	H	15197	Pradel,	74
He^*	+	He	5865	Krause Jr.,	72
			6915	Kvater,	75
			7360	Thompson,	75
			8985	Wine,	76
			8996	Shaw,	76
			9000	Gauthier,	76
			9121	Bagaev,	76
			10231	Oginets,	77
			10681	Miller,	77
			10917	Hunter Jr.,	73
			11188	Collins,	72
			11194	Wellenstein,	72
			12228	McCullough,	78
			13198	Dupont-Roc,	71
			13243	Bogdanova,	70
			13276	Pavlovskaya,	73
			13283	Kvater,	73
			13345	Bagaev,	78
			13390	Morgenstern,	73
			13391	Lenamon,	73
			13392	Olson,	73

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He^*	+	He	13745	Rosner, 72
			13801	Jordan, 78
			14496	Lawler, 79
			14655	Fukuda, 79
			14732	Hitachi, 79
			14859	Pinard, 74
$He^{\cdot}$	+	Kr	8908	Nayfeh, 76
			11978	Schmeltekopf, 70
			13660	Maio, 75
			14105	Collins, 79
			14724	Yokoyama, 79
			14732	Hitachi, 79
$He^{\cdot}$	+	Ne	5379	Ionikh, 71
			5755	Ionikh, 73
			6096	Aubes, 74
			6368	Lindinger, 74
			7753	Leasure, 76
			8908	Nayfeh, 76
			8987	Lee, 76
			11978	Schmeltekopf, 70
			13660	Maio, 75
			14732	Hitachi, 79
$He^{\cdot}$	+	Rb^{+1}	15397	Gudkov, 73
$He^{\cdot}$	+	Xe	5754	Bogdanova, 73
			6368	Lindinger, 74
			8908	Nayfeh, 76
			11978	Schmeltekopf, 70
			13660	Maio, 75
			14105	Collins, 79
			14724	Yokoyama, 79
			14732	Hitachi, 79
$He^{\cdot}$	+	CO	8987	Lee, 76
			11978	Schmeltekopf, 70
			14724	Yokoyama, 79
$He^{\cdot}$	+	D_2	11978	Schmeltekopf, 70
			14724	Yokoyama, 79
$He^{\cdot}$	+	HBr	14105	Collins, 79
$He^{\cdot}$	+	HCl	14105	Collins, 79
$He^{\cdot}$	+	H_2	6368	Lindinger, 74
			11978	Schmeltekopf, 70
			12228	McCullough, 78
			14105	Collins, 79
			14724	Yokoyama, 79
$He^{\cdot}$	+	N_2	6368	Lindinger, 74
			8987	Lee, 76
			9777	Myers, 77
			11978	Schmeltekopf, 70
			12228	McCullough, 78
			13756	Moseley, 72
$He^{\cdot}$	+	NO	11978	Schmeltekopf, 70
			14105	Collins, 79
			14724	Yokoyama, 79
$He^{\cdot}$	+	O_2	6368	Lindinger, 74
			9777	Myers, 77
He^*	+	O_2	11978	Schmeltekopf, 70
			14105	Collins, 79
			14724	Yokoyama, 79
$He^{\cdot}$	+	CO_2	6368	Lindinger, 74
			8987	Lee, 76
			11978	Schmeltekopf, 70
			14724	Yokoyama, 79
$He^{\cdot}$	+	H_2O	14105	Collins, 79
			14724	Yokoyama, 79
$He^{\cdot}$	+	N_2O	11978	Schmeltekopf, 70
			14105	Collins, 79
			14724	Yokoyama, 79
$He^{\cdot}$	+	NO_2	14105	Collins, 79
$He^{\cdot}$	+	SO_2	14724	Yokoyama, 79
$He^{\cdot}$	+	C_2H_2	13756	Moseley, 72
$He^{\cdot}$	+	NH_3	6368	Lindinger, 74
			11978	Schmeltekopf, 70
			14105	Collins, 79
			14724	Yokoyama, 79
$He^{\cdot}$	+	CCl_4	14724	Yokoyama, 79
$He^{\cdot}$	+	CCl_3F	14105	Collins, 79
$He^{\cdot}$	+	CCl_2F_2	14105	Collins, 79
			14724	Yokoyama, 79
$He^{\cdot}$	+	CH_4	8987	Lee, 76
			11978	Schmeltekopf, 70
			14724	Yokoyama, 79
$He^{\cdot}$	+	SF_6	11978	Schmeltekopf, 70
			14724	Yokoyama, 79
$He^{\cdot}$	+	C_2H_6	11978	Schmeltekopf, 70
			14105	Collins, 79
$He^{\cdot}$	+	C_3H_8	11978	Schmeltekopf, 70
			14105	Collins, 79
$He^{\cdot}$	+	C_4H_{10}	11978	Schmeltekopf, 70
He^{+1}	+	Ar	6396	Prior, 74
He^{+1}	+	He	6396	Prior, 74
He^{+1}	+	Kr	6396	Prior, 74
He^{+1}	+	Xe	6396	Prior, 74
He^{+1}	+	H_2	6396	Prior, 74
He^{+1}	+	N_2	6396	Prior, 74
He^{+1}	+	O_2	6396	Prior, 74
He^{+1}	+	CO_2	6396	Prior, 74
He^{+1}	+	H_2O	6396	Prior, 74
He^{+1}	+	NH_3	6396	Prior, 74
He^{+1}	+	CCl_4	6396	Prior, 74
Hg	+	Cd	10465	Cheron, 77
Hg	+	Hg	9789	Stock, 77
			13286	Bochkova, 74
			15407	Bochkova, 73
Hg	+	CO	6477	Burnham, 74

Hg	+	CO	8818	Liu, 76
			11045	Van Itallie, 72
			12455	Callear, 70
Hg	+	D_2	8818	Liu, 76
Hg	+	H_2	8818	Liu, 76
Hg	+	N_2	6477	Burnham, 74
			8818	Liu, 76
			10141	Phillips, 76
			11586	Degani, 78
Hg	+	NO	8818	Liu, 76
Hg	+	O_2	8818	Liu, 76
			12455	Callear, 70
Hg	+	CO_2	11045	Van Itallie, 72
Hg	+	D_2O	11045	Van Itallie, 72
Hg	+	H_2O	11045	Van Itallie, 72
Hg	+	ND_3	11045	Van Itallie, 72
Hg	+	NH_3	8818	Liu, 76
			11045	Van Itallie, 72
Hg	+	CH_4	8818	Liu, 76
Hg	+	C_2H_6	8818	Liu, 76
			11045	Van Itallie, 72
Hg	+	C_3H_6	11045	Van Itallie, 72
Hg	+	C_3D_8	11045	Van Itallie, 72
Hg	+	$C_3H_6D_2$	11045	Van Itallie, 72
Hg	+	C_3H_8	11045	Van Itallie, 72
Hg	+	C_4H_{10}	11045	Van Itallie, 72
Hg^*	+	Ar	7716	Lecler, 76
			14851	Phaneuf, 73
			14962	Lahaye, 74
Hg^*	+	Cd	6280	Morozov, 73
			7241	Chernon, 74
			14864	Czajkowski, 74
			15117	Cremer, 78
Hg^*	+	He	7716	Lecler, 76
			11045	Van Itallie, 72
			11789	Lukaszewski, 78
			14851	Phaneuf, 73
			14962	Lahaye, 74
Hg^*	+	Hg	6678	Vienne–Casalta, 75
			10134	Jacobson, 77
			11993	Waddell, 70
			12446	Freeman, 70
			13179	Dodsworth, 70
			14958	Cheron, 71
			14962	Lahaye, 74
Hg^*	+	I	13249	Kraulinya, 70
Hg^*	+	Kr	7716	Lecler, 76
			14851	Phaneuf, 73
			14962	Lahaye, 74
Hg^*	+	Na	13261	Bogdanova, 71

Hg^*	+	Na	14849	Czajkowski, 73
Hg^*	+	Ne	7716	Lecler, 76
			14851	Phaneuf, 73
			14962	Lahaye, 74
Hg^*	+	Tl	11101	Kraulinya, 77
			12236	Wade, 78
Hg^*	+	Xe	7716	Lecler, 76
			9068	Phillips, 77
			11045	Van Itallie, 72
			12446	Freeman, 70
			14845	Deech, 71
			14851	Phaneuf, 73
			14962	Lahaye, 74
Hg^*	+	Zn	6280	Morozov, 73
			8084	Czajkowski, 76
			15117	Cremer, 78
Hg^*	+	CN	12554	Vikis, 73
			12565	Vikis, 73
Hg^*	+	CO	5791	Fushiki, 73
			6106	Michael, 74
			9068	Phillips, 77
			9515	Costello, 77
			10140	Rockwood, 77
			14498	Horiguchi, 79
			14845	Deech, 71
			15139	Horiguchi, 71
			15141	Horiguchi, 74
			15297	Callear, 71
Hg^*	+	Cl_2	12623	Krause, 75
Hg^*	+	D_2	5301	Krause, 73
			11045	Van Itallie, 72
			11942	Vikis, 70
			14845	Deech, 71
Hg^*	+	HD	11045	Van Itallie, 72
Hg^*	+	HF	14817	Heydtmann, 71
Hg^*	+	H_2	5301	Krause, 73
			6106	Michael, 74
			9068	Phillips, 77
			11045	Van Itallie, 72
			11942	Vikis, 70
			11975	Michael, 70
			12442	Callear, 70
			12455	Callear, 70
			14845	Deech, 71
			14922	Nishikawa, 71
			15141	Horiguchi, 74
Hg^*	+	HgCl	12554	Vikis, 73
Hg^*	+	HgH	12554	Vikis, 73
Hg^*	+	NH	12554	Vikis, 73
Hg^*	+	N_2	5301	Krause, 73
			5362	Pitre, 72
			6493	Laniepce, 74
			7716	Lecler, 76

Hg^*	+	N_2	8308	Horiguchi,	75
			9515	Costello,	77
			11045	Van Itallie,	72
			12258	Barrat-Rambosso,	78
			12623	Krause,	75
			13513	Oka,	78
			14845	Deech,	71
			14851	Phaneuf,	73
			15139	Horiguchi,	71
Hg^*	+	NO	5301	Krause,	73
			6106	Michael,	74
			8886	Krause,	76
			9068	Phillips,	77
			11045	Van Itallie,	72
			12442	Callear,	70
			12455	Callear,	70
			14498	Horiguchi,	79
			15139	Horiguchi,	71
			15141	Horiguchi,	74
Hg^*	+	OH	12554	Vikis,	73
Hg^*	+	O_2	6106	Michael,	74
			9068	Phillips,	77
			11045	Van Itallie,	72
			14845	Deech,	71
			15141	Horiguchi,	74
Hg^*	+	CO_2	9068	Phillips,	77
			9515	Costello,	77
			12442	Callear,	70
			12455	Callear,	70
			14845	Deech,	71
Hg^*	+	D_2O	9068	Phillips,	77
Hg^*	+	H_2O	9068	Phillips,	77
Hg^*	+	N_2O	6106	Michael,	74
			9068	Phillips,	77
			12455	Callear,	70
			15141	Horiguchi,	74
Hg^*	+	C_2H_2	15141	Horiguchi,	74
Hg^*	+	NH_3	9068	Phillips,	77
			12430	Freeman,	70
			12455	Callear,	70
Hg^*	+	CCl_4	12623	Krause,	75
Hg^*	+	CD_4	11045	Van Itallie,	72
Hg^*	+	$CHCl_3$	12623	Krause,	75
Hg^*	+	CH_2Cl_2	12623	Krause,	75
Hg^*	+	CH_3Cl	12623	Krause,	75
Hg^*	+	CH_4	5301	Krause,	73
			9068	Phillips,	77
			11045	Van Itallie,	72
			11942	Vikis,	70
			12455	Callear,	70
Hg^*	+	C_2H_4	6106	Michael,	74
			9068	Phillips,	77
			11045	Van Itallie,	72
Hg^*	+	C_2H_4	11942	Vikis,	70
			12455	Callear,	70
			15141	Horiguchi,	74
Hg^*	+	C_2D_6	11045	Van Itallie,	72
Hg^*	+	C_2F_6	11045	Van Itallie,	72
Hg^*	+	C_2H_6	11942	Vikis,	70
			12455	Callear,	70
Hg^*	+	C_3H_6	6106	Michael,	74
			11942	Vikis,	70
			15141	Horiguchi,	74
Hg^*	+	$C_3H_6D_2$	11942	Vikis,	70
Hg^*	+	C_3H_8	11942	Vikis,	70
			12455	Callear,	70
			15141	Horiguchi,	74
Hg^*	+	C_6H_6	11045	Van Itallie,	72
Hg^*	+	C_4H_8	6106	Michael,	74
			11045	Van Itallie,	72
Hg^*	+	C_4D_{10}	11045	Van Itallie,	72
Hg^*	+	C_4H_{10}	11942	Vikis,	70
			15141	Horiguchi,	74
I	+	DBr	9585	Wiesenfeld,	77
I	+	HBr	9585	Wiesenfeld,	77
I	+	CD_3H	10286	Donovan,	74
I	+	CH_4	9585	Wiesenfeld,	77
I	+	CH_3I	10286	Donovan,	74
I	+	C_2H_5F	8830	Comes,	76
			9896	Husain,	77
I	+	C_3H_8	9585	Wiesenfeld,	77
I^*	+	Cl	11320	Grimley,	78
I^*	+	Br_2	11886	Hofmann,	78
I^*	+	BrCl	11886	Hofmann,	78
I^*	+	CO	7156	Lin,	75
I^*	+	Cl_2	11886	Hofmann,	78
I^*	+	DBr	9069	Donovan,	76
I^*	+	DCl	9069	Donovan,	76
I^*	+	D_2	14274	Grimley,	79
			15254	Deakin,	72
I^*	+	DI	9069	Donovan,	76
			8419	Pritt Jr.,	76
			9069	Donovan,	76
			11320	Grimley,	78
			11778	Fotakis,	78
			12931	Houston,	77
			12932	Pritt Jr.,	77
I^*	+	HCl	8419	Pritt Jr.,	76
			9069	Donovan,	76
			12931	Houston.	77
			12932	Pritt Jr.,	77
			15254	Deakin,	72
I^*	+	HD	6487	Butcher,	74

I^*	+	HD	14274	Grimley, 79
I^*	+	HF	8419	Pritt Jr., 76
			9275	Coombe, 77
			12932	Pritt Jr., 77
I^*	+	H_2	14274	Grimley, 79
			15254	Deakin, 72
I^*	+	HI	8419	Pritt Jr., 76
			9069	Donovan, 76
			12932	Pritt Jr., 77
I^*	+	IBr	11886	Hofmann, 78
I^*	+	ICl	11886	Hofmann, 78
I^*	+	I_2	6630	Burde, 75
			7182	Burde, 75
			7313	Arnold, 75
			7726	Burde, 76
			10046	Kartazaev, 77
			10659	Penkin, 77
			11886	Hofmann, 78
I^*	+	N_2	15254	Deakin, 72
I^*	+	NO	11320	Grimley, 78
			15254	Deakin, 72
I^*	+	O_2	5767	Harshbarger, 73
			7726	Burde, 76
			12483	Deakin, 71
			15254	Deakin, 72
			15310	Derwent, 72
I^*	+	CO_2	7726	Burde, 76
I^*	+	D_2O	7726	Burde, 76
			9069	Donovan, 76
			12247	Grimley, 78
I^*	+	HCN	14093	Fotakis, 79
I^*	+	HDO	12247	Grimley, 78
I^*	+	H_2O	7726	Burde, 76
			9069	Donovan, 76
			12247	Grimley, 78
			15254	Deakin, 72
I^*	+	HgI_2	13937	Hofmann, 78
I^*	+	OCS	14093	Fotakis, 79
I^*	+	C_2H_2	15254	Deakin, 72
I^*	+	CH_3	7774	Palmer, 76
I^*	+	H_2O_2	7726	Burde, 76
I^*	+	NH_3	14093	Fotakis, 79
I^*	+	CD_4	5669	Strain, 73
I^*	+	CD_3I	11093	Donovan, 77
			14067	Fotakis, 78
			14422	Dobychin, 78
I^*	+	CF_3I	14422	Dobychin, 78
I^*	+	CH_4	15254	Deakin, 72
I^*	+	CH_3I	7774	Palmer, 76
			14067	Fotakis, 78

I^*	+	C_2D_4	11093	Donovan, 77
I^*	+	C_2H_4	15254	Deakin, 72
I^*	+	C_2F_5I	14422	Dobychin, 78
I^*	+	C_2H_6	15254	Deakin, 72
I^*	+	C_3D_6	11093	Donovan, 77
I^*	+	C_3F_7I	14422	Dobychin, 78
I^*	+	C_3H_8	5669	Strain, 73
			15254	Deakin, 72
I^*	+	C_6D_6	11902	Donovan, 78
I^*	+	C_6H_6	11902	Donovan, 78
K^*	+	Ar	8430	Gounand, 76
			9788	Lewis, 77
			14746	Speller, 79
			14850	Niewitecka, 73
K^*	+	Cd	15063	Bulyshev, 79
K^*	+	He	8430	Gounand, 76
			9788	Lewis, 77
			14654	Cuvellier, 79
			14746	Speller, 79
			14850	Niewitecka, 73
K^*	+	K	8430	Gounand, 76
K^*	+	Kr	9788	Lewis, 77
			14746	Speller, 79
K^*	+	Ne	9788	Lewis, 77
			14746	Speller, 79
			14850	Niewitecka, 73
K^*	+	Xe	8430	Gounand, 76
			9788	Lewis, 77
			14746	Speller, 79
K^*	+	DCl	6323	Earl, 74
K^*	+	D_2	6323	Earl, 74
K^*	+	HCl	6323	Earl, 74
K^*	+	H_2	6293	Lijnse, 74
			6323	Earl, 74
			14850	Niewitecka, 73
K^*	+	I_2	6323	Earl, 74
K^*	+	N_2	6293	Lijnse, 74
			6323	Earl, 74
			15063	Bulyshev, 79
K^*	+	O_2	6293	Lijnse, 74
K^*	+	D_2O	6323	Earl, 74
K^*	+	H_2O	5966	Earl, 73
			6293	Lijnse, 74
			6323	Earl, 74
K^*	+	SO_2	6323	Earl, 74
K^*	+	CD_4	6323	Earl, 74
			14850	Niewitecka, 73
K^*	+	CF_3Cl	6323	Earl, 74
K^*	+	CF_4	5966	Earl, 73

K^{*}	+	CF_4	6323	Earl, 74
$K^{\cdot}$	+	CH_4	5966	Earl, 73
			6323	Earl, 74
			14850	Niewitecka, 73
$K^{\cdot}$	+	C_2D_4	6323	Earl, 74
$K^{\cdot}$	+	C_2H_4	6323	Earl, 74
$K^{\cdot}$	+	CH_3OH	6323	Earl, 74
$K^{\cdot}$	+	C_2D_6	6323	Earl, 74
$K^{\cdot}$	+	C_2H_6	6323	Earl, 74
$Kr^{\cdot}$	+	Ar	11821	Brechignac, 78
			11916	Kolts, 78
$Kr^{\cdot}$	+	He	11821	Brechignac, 78
$Kr^{\cdot}$	+	Hg	7983	Lee, 76
			14108	Velazco, 78
$Kr^{\cdot}$	+	Kr	9630	Lefevre-Seguin, 77
$Kr^{\cdot}$	+	Xe	8301	Damaschini, 76
$Kr^{\cdot}$	+	Br_2	14108	Velazco, 78
$Kr^{\cdot}$	+	CO	14108	Velazco, 78
$Kr^{\cdot}$	+	Cl_2	8897	Velazco, 76
			14108	Velazco, 78
$Kr^{\cdot}$	+	ClF	14108	Velazco, 78
$Kr^{\cdot}$	+	D_2	14108	Velazco, 78
$Kr^{\cdot}$	+	F_2	8897	Velazco, 76
			14108	Velazco, 78
$Kr^{\cdot}$	+	H_2	14108	Velazco, 78
$Kr^{\cdot}$	+	IBr	14108	Velazco, 78
$Kr^{\cdot}$	+	ICl	14108	Velazco, 78
$Kr^{\cdot}$	+	N_2	14108	Velazco, 78
$Kr^{\cdot}$	+	NO	14108	Velazco, 78
$Kr^{\cdot}$	+	O_2	5796	Gersh, 73
			14108	Velazco, 78
$Kr^{\cdot}$	+	CO_2	14108	Velazco, 78
$Kr^{\cdot}$	+	CS_2	14108	Velazco, 78
$Kr^{\cdot}$	+	D_2O	11907	Sheldon, 78
$Kr^{\cdot}$	+	H_2O	11907	Sheldon, 78
$Kr^{\cdot}$	+	N_2O	14108	Velazco, 78
$Kr^{\cdot}$	+	NOF	8897	Velazco, 76
$Kr^{\cdot}$	+	OF_2	8897	Velazco, 76
			14108	Velazco, 78
$Kr^{\cdot}$	+	SO_2	14108	Velazco, 78
$Kr^{\cdot}$	+	BF_3	14108	Velazco, 78
$Kr^{\cdot}$	+	C_2N_2	14108	Velazco, 78
$Kr^{\cdot}$	+	$COCl_2$	14108	Velazco, 78
$Kr^{\cdot}$	+	NF_3	8897	Velazco, 76
			14108	Velazco, 78

$Kr^{\cdot}$	+	NH_3	14108	Velazco, 78
$Kr^{\cdot}$	+	PH_3	14108	Velazco, 78
$Kr^{\cdot}$	+	$SOCl_2$	14108	Velazco, 78
$Kr^{\cdot}$	+	S_2Cl_2	14108	Velazco, 78
$Kr^{\cdot}$	+	$CBrF_3$	14108	Velazco, 78
$Kr^{\cdot}$	+	CCl_4	14108	Velazco, 78
$Kr^{\cdot}$	+	CF_3Cl	14108	Velazco, 78
$Kr^{\cdot}$	+	CF_4	14108	Velazco, 78
$Kr^{\cdot}$	+	CF_3I	14108	Velazco, 78
$Kr^{\cdot}$	+	CHF_3	14108	Velazco, 78
$Kr^{\cdot}$	+	CH_2F_2	14108	Velazco, 78
$Kr^{\cdot}$	+	CH_3F	14108	Velazco, 78
$Kr^{\cdot}$	+	CH_4	14108	Velazco, 78
$Kr^{\cdot}$	+	$SiCl_4$	14108	Velazco, 78
$Kr^{\cdot}$	+	SiF_4	14108	Velazco, 78
$Kr^{\cdot}$	+	N_2F_4	8897	Velazco, 76
$Kr^{\cdot}$	+	SF_6	14108	Velazco, 78
$Kr^{\cdot}$	+	C_2H_6	14108	Velazco, 78
Kr^{+1}	+	Kr	7320	Donnelly, 75
$Li^{\cdot}$	+	Ar	14746	Speller, 79
$Li^{\cdot}$	+	He	14746	Speller, 79
$Li^{\cdot}$	+	Kr	14746	Speller, 79
$Li^{\cdot}$	+	Ne	14746	Speller, 79
$Li^{\cdot}$	+	Xe	14746	Speller, 79
$Li^{\cdot}$	+	CO	8289	Lin, 76
$Li^{\cdot}$	+	D_2	8289	Lin, 76
$Li^{\cdot}$	+	H_2	8289	Lin, 76
$Li^{\cdot}$	+	I_2	8289	Lin, 76
$Li^{\cdot}$	+	N_2	8289	Lin, 76
$Li^{\cdot}$	+	CO_2	8289	Lin, 76
$Li^{\cdot}$	+	C_2H_4	8289	Lin, 76
$Li^{\cdot}$	+	C_2F_6	8289	Lin, 76
$Li^{\cdot}$	+	C_2H_6	8289	Lin, 76
Mg	+	CO	8833	Taieb, 76
Mg	+	H_2	8833	Taieb, 76
Mg	+	N_2	8833	Taieb, 76
Mg	+	O_2	8833	Taieb, 76
Mg	+	CO_2	8833	Taieb, 76
Mg	+	N_2O	8833	Taieb, 76
Mg	+	C_2H_2	8833	Taieb, 76

Mg^*	+	He	7191	Blickensderfer, 75
Mg^*	+	CO	7191	Blickensderfer, 75
Mg^*	+	H_2	7191	Blickensderfer, 75
Mg^*	+	N_2	7191	Blickensderfer, 75
Mg^*	+	C_2H_2	7191	Blickensderfer, 75
Mg^*	+	CH_4	7191	Blickensderfer, 75
Mg^*	+	C_6H_6	7191	Blickensderfer, 75
N^*	+	Ar	11361	Lin, 71
N^*	+	He	11361	Lin, 71
N^*	+	N	6779	Young, 75
			14770	Taghipour, 79
N^*	+	O	6779	Young, 75
			8213	Davenport, 76
N^*	+	CO	6779	Young, 75
			15292	Husain, 74
N^*	+	H_2	6779	Young, 75
			15292	Husain, 74
			15311	Husain, 72
N^*	+	N_2	8205	Slanger, 76
			11361	Lin, 71
			15056	Catherinot, 79
			15292	Husain, 74
			15311	Husain, 72
N^*	+	NO	6779	Young, 75
			11361	Lin, 71
			15292	Husain, 74
			15311	Husain, 72
N^*	+	O_2	6779	Young, 75
			11361	Lin, 71
			15292	Husain, 74
			15311	Husain, 72
N^*	+	CO_2	11361	Lin, 71
			15292	Husain, 74
N^*	+	H_2O	8205	Slanger, 76
N^*	+	N_2O	6779	Young, 75
			11361	Lin, 71
			15292	Husain, 74
			15311	Husain, 72
N^{+1}	+	Ar	13389	Moore Jr., 73
N^{+1}	+	He	13389	Moore Jr., 73
N^{+1}	+	Ne	13389	Moore Jr., 73
N^{+1}	+	O_2	13389	Moore Jr., 73
Na	+	Ar	10657	Phillips, 77
			11812	Biraben, 78
			15001	Elbel, 73
Na	+	He	11812	Biraben, 78
			13258	Dashevskaya, 71
			15001	Elbel, 73
			15223	Soboll, 73
Na	+	Kr	10657	Phillips, 77
			11812	Biraben, 78
			15001	Elbel, 73
Na	+	Na	8866	Allegrini, 76
Na	+	Ne	10657	Phillips, 77
			11812	Biraben, 78
			15001	Elbel, 73
Na	+	Xe	11812	Biraben, 78
			15001	Elbel, 73
Na	+	D_2	15223	Soboll, 73
Na	+	H_2	15223	Soboll, 73
Na	+	I_2	6758	Bersohn, 75
Na	+	N_2	12069	Milne, 70
			13012	Humphrey, 78
			14853	Czajkowski, 73
Na^*	+	Ar	9142	Phillips, 77
			12747	Flusberg, 78
			14285	Biraben, 79
			14354	Flusberg, 79
			14746	Speller, 79
			14749	Gallagher, 79
			14863	Niewitecka, 74
			15003	Elbel, 74
Na^*	+	He	12747	Flusberg, 78
			14285	Biraben, 79
			14354	Flusberg, 79
			14746	Speller, 79
			14749	Gallagher, 79
			14863	Niewitecka, 74
			15003	Elbel, 74
Na^*	+	I	12036	Brus, 70
Na^*	+	K	7165	Allegrini, 75
Na^*	+	Kr	9142	Phillips, 77
			14285	Biraben, 79
			14746	Speller, 79
			14863	Niewitecka, 74
			15003	Elbel, 74
Na^*	+	Na	6971	Chen, 75
Na^*	+	Na^*	11239	Gallagher, 78
Na^*	+	Ne	6943	Biraben, 75
			9142	Phillips, 77
			14285	Biraben, 79
			14354	Flusberg, 79
			14746	Speller, 79
			14863	Niewitecka, 74
			15003	Elbel, 74
Na^*	+	Rb	7822	Pritchard, 75
Na^*	+	Xe	14285	Biraben, 79
			14746	Speller, 79
			14749	Gallagher, 79
			14863	Niewitecka, 74
			15003	Elbel, 74
Na^*	+	Br_2	6323	Earl, 74

Na^*	+	Br_2	12036	Brus, 70
Na^*	+	CO	8288	Barker, 76
			8438	Hsu, 76
			9176	Hertel, 77
			10658	Hertel, 77
			14526	Hertel, 79
Na^*	+	D_2	6323	Earl, 74
			8288	Barker, 76
			9176	Hertel, 77
			10658	Hertel, 77
Na^*	+	H_2	5568	Lijnse, 73
			6323	Earl, 74
			8288	Barker, 76
			9176	Hertel, 77
			10658	Hertel, 77
Na^*	+	I_2	4765	Earl, 72
			12036	Brus, 70
Na^*	+	N_2	5371	Lijnse, 72
			5457	Barker, 73
			8160	Hertel, 76
			8288	Barker, 76
			9112	Hertel, 77
			9176	Hertel, 77
			10361	Gallagher, 78
			10658	Hertel, 77
			12484	Mintz, 71
			14526	Hertel, 79
Na^*	+	Na_2	11407	Lam, 78
Na^*	+	O_2	5568	Lijnse, 73
			9176	Hertel, 77
Na^*	+	CO_2	4765	Earl, 72
			8288	Barker, 76
			9176	Hertel, 77
Na^*	+	D_2O	6323	Earl, 74
Na^*	+	H_2O	5371	Lijnse, 72
			6323	Earl, 74
Na^*	+	N_2O	9176	Hertel, 77
Na^*	+	SO_2	4765	Earl, 72
Na^*	+	CF_3Cl	4765	Earl, 72
Na^*	+	CF_4	6323	Earl, 74
Na^*	+	CH_4	6323	Earl, 74
Na^*	+	C_2H_4	4765	Earl, 72
			8288	Barker, 76
			9176	Hertel, 77
Na^*	+	CH_3CN	4765	Earl, 72
Na^*	+	CH_3OH	6323	Earl, 74
Na^*	+	C_2H_6	6323	Earl, 74
Na^*	+	C_6H_6	4765	Earl, 72
Ne	+	He	13014	Hennecart, 78
			13340	Graubner, 78
			13571	Carrington, 72
Ne	+	Ne	13014	Hennecart, 78
Ne	+	Ne	13340	Graubner, 78
			13571	Carrington, 72
Ne^*	+	Ar	11657	Brom Jr., 78
			13756	Moseley, 72
			14724	Yokoyama, 79
Ne^*	+	He	7707	Leichner, 75
			9267	Hennecart, 77
			13256	Kotlikov, 71
			13719	Arrathoon, 71
			15066	Webster, 79
Ne^*	+	Kr	11657	Brom Jr., 78
Ne^*	+	Ne	6260	Phelps, 59
			7707	Leichner, 75
			7709	Grandin, 75
			9876	Pinard, 77
			10462	Monteil, 77
			13256	Kotlikov, 71
			14393	Prins, 77
			15210	Sierra, 79
			15410	Yamagishi, 74
Ne^*	+	Ne^*	8904	Nakata, 76
Ne^*	+	Xe	11657	Brom Jr., 78
Ne^*	+	CO	11657	Brom Jr., 78
Ne^*	+	Cl_2	11657	Brom Jr., 78
Ne^*	+	F_2	11657	Brom Jr., 78
Ne^*	+	HCl	11657	Brom Jr., 78
Ne^*	+	H_2	11657	Brom Jr., 78
			14724	Yokoyama, 79
			15045	Bochkova, 78
Ne^*	+	N_2	11657	Brom Jr., 78
			14724	Yokoyama, 79
Ne^*	+	N_2O	11657	Brom Jr., 78
Ne^*	+	NF_3	11657	Brom Jr., 78
Ne^*	+	N_2F_4	11657	Brom Jr., 78
Ne^*	+	SF_6	14724	Yokoyama, 79
No^*	+	N_2^*	11956	Fontijn, 70
O	+	Ar	5429	Atkinson, 72
			10275	Stief, 75
O	+	He	10275	Stief, 75
O	+	Ne	7284	Davidson, 76
O	+	CO	5962	Slanger, 74
			6389	Lin, 74
O	+	D_2	7284	Davidson, 76
O	+	HCl	7284	Davidson, 76
O	+	H_2	7284	Davidson, 76
O	+	N_2	5429	Atkinson, 72
			5962	Slanger, 74
			7284	Davidson, 76
O	+	O_2	5429	Atkinson, 72
			7284	Davidson, 76

O	+	CO_2	5429	Atkinson, 72
			7284	Davidson, 76
			11010	Loucks, 72
			11145	Loucks, 72
O	+	H_2O	7284	Davidson, 76
O	+	N_2O	7284	Davidson, 76
O	+	O_3	7284	Davidson, 76
O	+	NH_3	7284	Davidson, 76
O	+	CH_4	7284	Davidson, 76
O^-	+	Ar	10965	Marx, 73
O^-	+	N_2O	10965	Marx, 73
O^*	+	Ar	5647	Roth, 73
			10314	Cunningham, 74
			11922	Davidson, 78
			12017	Filseth, 70
			15149	Heidner III, 74
O^*	+	He	5376	Heidner III, 72
			5647	Roth, 73
			12017	Filseth, 70
			12102	Scott, 71
			15149	Heidner III, 74
O^*	+	Kr	11922	Davidson, 78
			12017	Filseth, 70
			12447	Donovan, 70
			15149	Heidner III, 74
O^*	+	N	5855	Felder, 72
O^*	+	Ne	5647	Roth, 73
			12017	Filseth, 70
			15149	Heidner III, 74
O^*	+	O	5855	Felder, 72
			8136	Slanger, 76
O^*	+	Xe	10314	Cunningham, 74
			11922	Davidson, 78
			12017	Filseth, 70
			12076	Biedenkapp, 70
			12102	Scott, 71
			12128	Paraskevopoulos, 71
			12447	Donovan, 70
			15149	Heidner III, 74
O^*	+	CO	5647	Roth, 73
			5799	Heidner III, 73
			7156	Lin, 75
			8122	Shortridge, 76
			11137	Clark, 72
			11920	Davidson, 78
			12017	Filseth, 70
			12039	Noxon, 70
			15142	Heidner III, 73
O^*	+	D_2	15148	Heidner III, 73
O^*	+	H_2	5647	Roth, 73
			12017	Filseth, 70
			12447	Donovan, 70
			15148	Heidner III, 73

O^*	+	N_2	5647	Roth, 73
			5799	Heidner III, 73
			11137	Clark, 72
			11972	Webster III, 70
			12017	Filseth, 70
			12039	Noxon, 70
			12076	Biedenkapp, 70
			12108	Slanger, 71
			12111	Loewenstein, 71
			12137	Gauthier, 71
			12447	Donovan, 70
			12480	Paraskevopoulos, 71
			14713	Sheridan, 79
			14929	Sipler, 72
			15142	Heidner III, 73
O^*	+	NO	5647	Roth, 73
			11106	Slanger, 78
			12017	Filseth, 70
			15148	Heidner III, 73
O^*	+	O_2	5388	Slanger, 72
			5640	Koroleva, 72
			5647	Roth, 73
			5799	Heidner III, 73
			10683	Nowak, 77
			11107	Slanger, 78
			11137	Clark, 72
			11328	Gilpin, 71
			11972	Webster III, 70
			12017	Filseth, 70
			12039	Noxon, 70
			12061	DeMore, 70
			12076	Biedenkapp, 70
			12102	Scott, 71
			12111	Loewenstein, 71
			12128	Paraskevopoulos, 7
			12137	Gauthier, 71
			12466	McCullough, 71
			12480	Paraskevopoulos, 7
			13281	Koroleva, 73
			13352	Lee, 78
			15142	Heidner III, 73
O^*	+	CO_2	5647	Roth, 73
			5799	Heidner III, 73
			11106	Slanger, 78
			11137	Clark, 72
			12017	Filseth, 70
			12039	Noxon, 70
			12102	Scott, 71
			12108	Slanger, 71
			12111	Loewenstein, 71
			12128	Paraskevopoulos, 7
			12447	Donovan, 70
			12480	Paraskevopoulos,
			12631	Shortridge, 75
			15142	Heidner III, 73
O^*	+	H_2O	5647	Roth, 73

O^*	+	H_2O	5799	Heidner III, 73
			8417	Bingham, 76
			11106	Slanger, 78
			12017	Filseth, 70
			12480	Paraskevopoulos, 71
			14510	Quickenden, 79
			15142	Heidner III, 73
O^*	+	N_2O	5647	Roth, 73
			8420	Slanger, 76
			11106	Slanger, 78
			12017	Filseth, 70
			12128	Paraskevopoulos, 71
			12447	Donovan, 70
			15148	Heidner III, 73
O^*	+	NO_2	12017	Filseth, 70
			12128	Paraskevopoulos, 71
			15148	Heidner III, 73
O^*	+	O_3	5376	Heidner III, 72
			5799	Heidner III, 73
			12039	Noxon, 70
			12961	Amimoto, 78
			15142	Heidner III, 73
O^*	+	SO_2	5647	Roth, 73
O^*	+	$COCl_2$	14107	Fletcher, 78
O^*	+	COFCl	14107	Fletcher, 78
O^*	+	COF_2	14107	Fletcher, 78
O^*	+	H_2O_2	9003	Fletcher, 76
O^*	+	NH_3	9003	Fletcher, 76
			12017	Filseth, 70
O^*	+	SO_3	5647	Roth, 73
O^*	+	C_3O_2	15148	Heidner III, 73
O^*	+	CCl_2F_2	8298	Fletcher, 76
O^*	+	CH_4	12017	Filseth, 70
			12447	Donovan, 70
			15148	Heidner III, 73
O^*	+	C_2H_4	12017	Filseth, 70
O^*	+	SF_6	12017	Filseth, 70
			12102	Scott, 71
			12128	Paraskevopoulos, 71
O^*	+	C_2H_6	9003	Fletcher, 76
			12017	Filseth, 70
O^*	+	C_3H_8	9003	Fletcher, 76
O^{+1}	+	O	10133	Orsini, 77
			11086	Torr, 77
			13019	Torr, 78
O^{+1}	+	CO	13512	Glosik, 78
O^{+1}	+	N_2	13512	Glosik, 78
O^{+1}	+	NO	13512	Glosik, 78
O^{+1}	+	O_2	13512	Glosik, 78
P	+	Ar	10989	Acuna, 73
P	+	Kr	10989	Acuna, 73
P	+	Xe	10989	Acuna, 73
P	+	CO	10989	Acuna, 73
P	+	H_2	10909	Acuna, 73
P	+	N_2	10989	Acuna, 73
P	+	NO	10989	Acuna, 73
P	+	O_2	10909	Acuna, 73
P	+	CO_2	10989	Acuna, 73
P	+	N_2O	10989	Acuna, 73
P	+	PCl_3	10909	Acuna, 73
			10989	Acuna, 73
P	+	CH_4	10989	Acuna, 73
P	+	C_2H_4	10989	Acuna, 73
P^*	+	Cl_2	15288	Acuna, 73
P^*	+	HCl	15288	Acuna, 73
P^*	+	C_2H_2	15288	Acuna, 73
P^*	+	CF_3Cl	15288	Acuna, 73
P^*	+	CF_4	15288	Acuna, 73
P^*	+	CHF_3	15288	Acuna, 73
P^*	+	SF_6	15288	Acuna, 73
P^*	+	C_2H_6	15288	Acuna, 73
Pb	+	Ar	7331	Ewing, 74
Pb	+	Xe	7331	Ewing, 74
Pb	+	D_2	7331	Ewing, 74
Pb	+	H_2	7331	Ewing, 74
Pb	+	N_2	7331	Ewing, 74
Pb	+	O_2	7331	Ewing, 74
Pb^*	+	Ar	8299	Mandl, 76
			13748	Gibbs, 72
			15065	Bolshov, 79
			15150	Husain, 74
Pb^*	+	H	11896	Brady, 78
Pb^*	+	He	12522	Husain, 72
			13748	Gibbs, 72
			15065	Bolshov, 79
			15150	Husain, 74
			15287	Husain, 72
Pb^*	+	K	15065	Bolshov, 79
Pb^*	+	Kr	8299	Mandl, 76
Pb^*	+	Ne	8299	Mandl, 76
			13748	Gibbs, 72
			15065	Bolshov, 79
Pb^*	+	Xe	8299	Mandl, 76
			12522	Husain, 72
			13748	Gibbs, 72
			15287	Husain, 72
Pb^*	+	CO	5801	Husain, 73

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Pb^*	+	CO	8299	Mandl,	76
			15150	Husain,	74
			15287	Husain,	72
Pb^*	+	D_2	8299	Mandl,	76
			13748	Gibbs,	72
			15150	Husain,	74
Pb^*	+	H_2	8299	Mandl,	76
			12522	Husain,	72
			13748	Gibbs,	72
			15065	Bolshov,	79
			15150	Husain,	74
			15287	Husain,	72
Pb^*	+	N_2	5801	Husain,	73
			8299	Mandl,	76
			13748	Gibbs,	72
			15065	Bolshov,	79
			15150	Husain,	74
			15287	Husain,	72
Pb^*	+	NO	5801	Husain,	73
			15150	Husain,	74
			15287	Husain,	72
Pb^*	+	O_2	12522	Husain,	72
			15150	Husain,	74
			15287	Husain,	72
Pb^*	+	CO_2	5801	Husain,	73
			8299	Mandl,	76
			15065	Bolshov,	79
			15150	Husain,	74
			15287	Husain,	72
Pb^*	+	H_2O	15065	Bolshov,	79
Pb^*	+	N_2O	5801	Husain,	73
			15150	Husain,	74
			15287	Husain,	72
Pb^*	+	C_2H_2	5801	Husain,	73
			15150	Husain,	74
			15287	Husain,	72
Pb^*	+	NH_3	15065	Bolshov,	79
Pb^*	+	CF_4	5801	Husain,	73
			8299	Mandl,	76
			15150	Husain,	74
			15287	Husain,	72
Pb^*	+	CH_4	5801	Husain,	73
			8299	Mandl,	76
			15065	Bolshov,	79
			15150	Husain,	74
			15287	Husain,	72
Pb^*	+	C_2H_4	5801	Husain,	73
			15150	Husain,	74
			15287	Husain,	72
Pb^*	+	SF_6	5801	Husain,	73
			8299	Mandl,	76
			15150	Husain,	74
			15287	Husain,	72

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Rb	+	Ar	7240	Bouchiat,	75
			9578	Gounand,	77
			13289	Yakobson,	74
			13743	Papp,	72
Rb	+	He	9182	Doebler,	77
			9578	Gounand,	77
			13258	Dashevskaya,	71
			13743	Papp,	72
Rb	+	Kr	9182	Doebler,	77
			13289	Yakobson,	74
Rb	+	Ne	9578	Gounand,	77
			13289	Yakobson,	74
			13743	Papp,	72
Rb	+	Rb	9578	Gounand,	77
			13289	Yakobson,	74
Rb	+	Xe	9182	Doebler,	77
			13289	Yakobson,	74
Rb	+	N_2	13289	Yakobson,	74
Rb^*	+	Ar	6768	Kamke,	75
			10653	Gounand,	77
			11046	Bouchiat,	72
			11937	Dashevskaya,	70
			14728	Hugon,	79
			14746	Speller,	79
			14809	Hugon,	79
			14846	Siara,	72
Rb^*	+	He	6768	Kamke,	75
			9631	Brouillaud,	77
			10653	Gounand,	77
			11937	Dashevskaya,	70
			14727	Hugon,	79
			14728	Hugon,	79
			14746	Speller,	79
			14809	Hugon,	79
			14846	Siara,	72
Rb^*	+	Kr	6768	Kamke,	75
			11046	Bouchiat,	72
			14746	Speller,	79
			14846	Siara,	72
Rb^*	+	Ne	6768	Kamke,	75
			10653	Gounand,	77
			14746	Speller,	79
			14846	Siara,	72
Rb^*	+	Rb	10653	Gounand,	77
			14726	Gounand,	79
			14728	Hugon,	79
Rb^*	+	Xe	6768	Kamke,	75
			9631	Brouillaud,	77
			11046	Bouchiat,	72
			11937	Dashevskaya,	70
			14728	Hugon,	79
			14746	Speller,	79
			14809	Hugon,	79
			14846	Siara,	72

Rb^*	+	D_2	14839	Hrycyshyn, 70
			14848	Siara, 73
Rb^*	+	HD	14848	Siara, 73
Rb^*	+	H_2	14839	Hrycyshyn, 70
			14848	Siara, 73
			14972	Lijnse, 73
Rb^*	+	N_2	14839	Hrycyshyn, 70
			14848	Siara, 73
			14972	Lijnse, 73
Rb^*	+	O_2	14972	Lijnse, 73
Rb^*	+	H_2O	14972	Lijnse, 73
Rb^*	+	CD_4	14839	Hrycyshyn, 70
			14848	Siara, 73
Rb^*	+	CH_4	14839	Hrycyshyn, 70
			14848	Siara, 73
Rb^*	+	C_2H_4	14839	Hrycyshyn, 70
Rb^*	+	C_2H_6	14839	Hrycyshyn, 70
S	+	Ar	5763	Dunn, 73
S	+	CO	5763	Dunn, 73
S	+	H_2	5763	Dunn, 73
S	+	NO	5763	Dunn, 73
S	+	O_2	5763	Dunn, 73
S	+	CO_2	5763	Dunn, 73
S	+	CS_2	5763	Dunn, 73
S	+	H_2S	5763	Dunn, 73
S	+	N_2O	5763	Dunn, 73
S	+	NO_2	5763	Dunn, 73
S	+	OCS	5763	Dunn, 73
S	+	SO_2	5763	Dunn, 73
S	+	C_2H_2	5763	Dunn, 73
S	+	CH_4	5763	Dunn, 73
S	+	C_2H_4	5763	Dunn, 73
S	+	C_2H_6	5763	Dunn, 73
S^*	+	Xe	11944	Breckenridge, 70
S^*	+	CO	11944	Breckenridge, 70
S^*	+	CO_2	11944	Breckenridge, 70
S^*	+	CS_2	11944	Breckenridge, 70
S^*	+	N_2O	11944	Breckenridge, 70
S^*	+	OCS	11944	Breckenridge, 70
S^*	+	SF_6	11944	Breckenridge, 70
S^{+1}	+	H_2	14241	Tichy, 79
S^{+1}	+	NO	14241	Tichy, 79
S^{+1}	+	O_2	14241	Tichy, 79
S^{+1}	+	CO_2	14241	Tichy, 79
S^{+1}	+	H_2O	14241	Tichy, 79
S^{+1}	+	NH_3	14241	Tichy, 79

S^{+1}	+	CH_4	14241	Tichy, 79
Se^*	+	Ar	11581	Donovan, 78
Se^*	+	He	11581	Donovan, 78
Se^*	+	Kr	11581	Donovan, 78
Se^*	+	Ne	11581	Donovan, 78
Se^*	+	Xe	11581	Donovan, 78
Si^*	+	He	9906	Husain, 77
			11504	Husain, 78
			12964	Husain, 78
Si^*	+	Kr	12964	Husain, 78
Si^*	+	Xe	12964	Husain, 78
Si^*	+	CO	11504	Husain, 78
Si^*	+	Cl_2	11504	Husain, 78
Si^*	+	H_2	11504	Husain, 78
Si^*	+	N_2	11504	Husain, 78
Si^*	+	NO	11504	Husain, 78
Si^*	+	O_2	9906	Husain, 77
			11504	Husain, 78
Si^*	+	CO_2	11504	Husain, 78
Si^*	+	N_2O	9906	Husain, 77
			11504	Husain, 78
Si^*	+	C_2H_2	11504	Husain, 78
Si^*	+	CF_4	11504	Husain, 78
Si^*	+	CH_4	11504	Husain, 78
Si^*	+	$SiCl_4$	9906	Husain, 77
			11504	Husain, 78
Si^*	+	C_2H_4	11504	Husain, 78
Sn^*	+	Ar	6658	Foo, 75
			7746	Foo, 76
Sn^*	+	Kr	7746	Foo, 76
Sn^*	+	Xe	7746	Foo, 76
Sn^*	+	CO	7746	Foo, 76
			15152	Brown, 75
			15291	Brown, 75
Sn^*	+	D_2	6658	Foo, 75
			7746	Foo, 76
			15291	Brown, 75
Sn^*	+	HD	7746	Foo, 76
Sn^*	+	H_2	6658	Foo, 75
			7746	Foo, 76
Sn^*	+	N_2	7746	Foo, 76
			15152	Brown, 75
			15291	Brown, 75
Sn^*	+	NO	7746	Foo, 76
			15152	Brown, 75
			15291	Brown, 75
Sn^*	+	O_2	6658	Foo, 75
			7746	Foo, 76
Sn^*	+	CO_2	7746	Foo, 76

Sn^*	+	CO_2	15152	Brown,	75
			15291	Brown,	75
Sn^*	+	N_2O	15152	Brown,	75
			15291	Brown,	75
Sn^*	+	C_2D_2	7746	Foo,	76
Sn^*	+	C_2H_2	7746	Foo,	76
			15152	Brown,	75
			15291	Brown,	75
Sn^*	+	CF_4	7746	Foo,	76
			15291	Brown,	75
Sn^*	+	CHF_3	7746	Foo,	76
			15291	Brown,	75
Sn^*	+	CH_4	7746	Foo,	76
			15152	Brown,	75
			15291	Brown,	75
Sn^*	+	C_2D_4	7746	Foo,	76
Sn^*	+	C_2H_4	7746	Foo,	76
			15152	Brown,	75
Sr^*	+	CO	9147	Jansen,	77
			14971	Hollander,	73
Sr^*	+	H_2	14970	Hollander,	72
Sr^*	+	N_2	9147	Jansen,	77
			14970	Hollander,	72
Sr^*	+	O_2	9147	Jansen,	77
			14970	Hollander,	72
Sr^*	+	CO_2	9147	Jansen,	77
			14971	Hollander,	73
Sr^*	+	H_2O	14970	Hollander,	72
Tl	+	Ar	13182	Gibbs,	70
			13273	Rebane,	72
			15224	Gelbhaar,	75
Tl	+	He	13182	Gibbs,	70
			13273	Rebane,	72
			15224	Gelbhaar,	75
Tl	+	Kr	13182	Gibbs,	70
			13273	Rebane,	72
			15224	Gelbhaar,	75
Tl	+	Ne	13182	Gibbs,	70
			13273	Rebane,	72
			15224	Gelbhaar,	75
Tl	+	Xe	13182	Gibbs,	70
			13273	Rebane,	72
			15224	Gelbhaar,	75
Tl	+	H_2	13242	Rityn,	70
Tl	+	I_2	11368	Gedeon,	71
Tl	+	N_2	13242	Rityn,	70
Tl^*	+	Ar	11983	Bellisio,	70
			13978	Aleksandrov,	78
Tl^*	+	He	11983	Bellisio,	70
			13978	Aleksandrov,	78

Tl^*	+	Kr	13978	Aleksandrov,	78
Tl^*	+	Ne	11983	Bellisio,	70
Tl^*	+	Tl	13978	Aleksandrov,	78
Tl^*	+	Xe	13978	Aleksandrov,	78
Tl^*	+	CO	11983	Bellisio,	70
			12559	Wiesenfeld,	73
Tl^*	+	D_2	12559	Wiesenfeld,	73
Tl^*	+	H_2	8089	Gelbhaar,	76
			11983	Bellisio,	70
			12559	Wiesenfeld,	73
Tl^*	+	I_2	12036	Brus,	70
Tl^*	+	N_2	8089	Gelbhaar,	76
			11983	Bellisio,	70
			13978	Aleksandrov,	78
			14068	Wade,	78
Tl^*	+	NO	11983	Bellisio,	70
Tl^*	+	O_2	11983	Bellisio,	70
			12559	Wiesenfeld,	73
Tl^*	+	TlBr	11983	Bellisio,	70
Tl^*	+	TlCl	11983	Bellisio,	70
Tl^*	+	TlI	11983	Bellisio,	70
			12036	Brus,	70
Tl^*	+	CO_2	11983	Bellisio,	70
Tl^*	+	CF_4	15307	Foo,	75
Tl^*	+	CHF_3	15307	Foo,	75
Tl^*	+	CH_4	11983	Bellisio,	70
			15307	Foo,	75
Tl^*	+	C_2H_4	11983	Bellisio,	70
			12559	Wiesenfeld,	73
Tl^*	+	C_2H_6	11983	Bellisio,	70
Tl^*	+	C_3H_6	11983	Bellisio,	70
			15307	Foo,	75
Tl^*	+	C_3H_8	11983	Bellisio,	70
Xe	+	He	9860	Suzuki,	77
Xe	+	Xe	9860	Suzuki,	77
Xe^*	+	Ar	6445	Atzmon,	74
			9201	Gleason,	77
			11763	Chenevier,	78
			11916	Kolts,	78
Xe^*	+	Hg	14108	Velazco,	78
Xe^*	+	Xe	8075	Leichner,	76
			9630	Lefevre-Seguin,	7
			10144	Sadeghi,	77
			11597	Tracy,	78
			13287	Zhitnikov,	74
Xe^*	+	Br_2	8897	Velazco,	76
			14108	Velazco,	78
Xe^*	+	CO	6059	Velazco,	74
Xe^*	+	Cl_2	6059	Velazco,	74

Xe^*	+	Cl_2	8897	Velazco, 76
			14108	Velazco, 78
$Xe^{\cdot}$	+	ClF	14108	Velazco, 78
$Xe^{\cdot}$	+	F_2	8897	Velazco, 76
			14108	Velazco, 78
$Xe^{\cdot}$	+	HBr	6059	Velazco, 74
			8897	Velazco, 76
$Xe^{\cdot}$	+	HCl	6059	Velazco, 74
			8897	Velazco, 76
$Xe^{\cdot}$	+	H_2	6059	Velazco, 74
			15045	Bochkova, 78
$Xe^{\cdot}$	+	ICl	8897	Velazco, 76
$Xe^{\cdot}$	+	N_2	6059	Velazco, 74
			6398	Nguyen, 74
			11597	Tracy, 78
$Xe^{\cdot}$	+	NO	6059	Velazco, 74
			14108	Velazco, 78
$Xe^{\cdot}$	+	O_2	6059	Velazco, 74
$Xe^{\cdot}$	+	CO_2	6059	Velazco, 74
$Xe^{\cdot}$	+	H_2S	14108	Velazco, 78
$Xe^{\cdot}$	+	N_2O	6059	Velazco, 74
$Xe^{\cdot}$	+	NOCl	8897	Velazco, 76
$Xe^{\cdot}$	+	NOF	8897	Velazco, 76
			14108	Velazco, 78
$Xe^{\cdot}$	+	OF_2	8897	Velazco, 76
$Xe^{\cdot}$	+	C_2H_2	7181	Velazco, 75
			14108	Velazco, 78
$Xe^{\cdot}$	+	NF_3	8897	Velazco, 76
$Xe^{\cdot}$	+	NH_3	14730	Kellert, 79
$Xe^{\cdot}$	+	$SOCl_2$	14108	Velazco, 78
$Xe^{\cdot}$	+	S_2Cl_2	14108	Velazco, 78
$Xe^{\cdot}$	+	$CBrF_3$	14108	Velazco, 78
$Xe^{\cdot}$	+	CF_4	7181	Velazco, 75
			14108	Velazco, 78
$Xe^{\cdot}$	+	CF_3I	8897	Velazco, 76
$Xe^{\cdot}$	+	CHF_3	7181	Velazco, 75
			14108	Velazco, 78
$Xe^{\cdot}$	+	CH_2F_2	7181	Velazco, 75
			14108	Velazco, 78
$Xe^{\cdot}$	+	CH_3F	7181	Velazco, 75
			14108	Velazco, 78
$Xe^{\cdot}$	+	CH_4	6059	Velazco, 74
			7181	Velazco, 75
$Xe^{\cdot}$	+	C_2H_4	7181	Velazco, 75
			14108	Velazco, 78
$Xe^{\cdot}$	+	SF_6	6059	Velazco, 74
			14108	Velazco, 78
$Xe^{\cdot}$	+	SeF_6	8897	Velazco, 76

$Xe^{\cdot}$	+	TeF_6	8897	Velazco, 76
$Xe^{\cdot}$	+	C_2H_6	6059	Velazco, 74
			7181	Velazco, 75
$Xe^{\cdot}$	+	C_3H_8	14108	Velazco, 78
Xe^{+2}	+	He	14778	Johnsen, 79
Xe^{+2}	+	Ne	14778	Johnsen, 79
Yb^{+1}	+	Ar	10148	Buttler, 78
Yb^{+1}	+	He	10148	Buttler, 78
Yb^{+1}	+	Kr	10148	Buttler, 78
Yb^{+1}	+	Ne	10148	Buttler, 78
Yb^{+1}	+	Xe	10148	Buttler, 78
Zn	+	Ar	11467	Laniepce, 77
Zn	+	Cd	13255	Penkin, 71
Zn	+	He	11467	Laniepce, 77
Zn	+	Hg	13255	Penkin, 71
Zn	+	Kr	11467	Laniepce, 77
Zn	+	Ne	11467	Laniepce, 77
Zn	+	Xe	11467	Laniepce, 77
Zn	+	Zn	13255	Penkin, 71
Zn	+	N_2	11467	Laniepce, 77
$Zn^{\cdot}$	+	CO	14536	Breckenridge, 79
$Zn^{\cdot}$	+	D_2	14536	Breckenridge, 79
$Zn^{\cdot}$	+	HD	14536	Breckenridge, 79
$Zn^{\cdot}$	+	H_2	14536	Breckenridge, 79
$Zn^{\cdot}$	+	N_2	8084	Czajkowski, 76
			14536	Breckenridge, 79
$Zn^{\cdot}$	+	NO	8832	Breckenridge, 76
$Zn^{\cdot}$	+	CH_4	14536	Breckenridge, 79
$Zn^{\cdot}$	+	C_2H_6	14536	Breckenridge, 79
$Zn^{\cdot}$	+	C_3H_8	14536	Breckenridge, 79
$Zn^{\cdot}$	+	C_4H_{10}	14536	Breckenridge, 79
$Ar_2^{\cdot}$	+	Xe	10574	Cheshnovsky, 73
$Ar_2^{\cdot}$	+	N_2	14047	Chen, 79
$ArF^{\cdot}$	+	Ar	10197	Rokni, 77
			12202	Chen, 78
$ArF^{\cdot}$	+	F_2	10197	Rokni, 77
			12202	Chen, 78
BaCl	+	Ar	9899	Edelstein, 77
			10667	Edelstein, 77
			13987	Edelstein, 79
BaCl	+	He	13987	Edelstein, 79
BaCl	+	N_2	13987	Edelstein, 79
$BaCl^{\cdot}$	+	Ar	14081	Edelstein, 79
$BaCl^{\cdot}$	+	He	14081	Edelstein, 79
$BaCl^{\cdot}$	+	N_2	14081	Edelstein, 79
BaO	+	Ar	9898	Felder, 77

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BaO	+	He	9898	Felder, 77
			11009	Johnson, 72
BaO	+	N_2	9898	Felder, 77
BaO	+	O_2	9898	Felder, 77
BaO	+	N_2O	9898	Felder, 77
Br_2^*	+	Ar	8242	Bugrim, 75
Br_2^*	+	He	8242	Bugrim, 75
Br_2^*	+	Kr	8242	Bugrim, 75
Br_2^*	+	Ne	8242	Bugrim, 75
Br_2^*	+	Br_2	8242	Bugrim, 75
Br_2^*	+	N_2	8242	Bugrim, 75
Br_2^*	+	O_2	8242	Bugrim, 75
Br_2^*	+	CO_2	8242	Bugrim, 75
BrF	+	He	9902	Clyne, 77
BrF	+	Br_2	9902	Clyne, 77
BrF	+	BrF	9902	Clyne, 77
CN	+	Ar	11007	Jackson, 72
			14815	Katayama, 79
CN	+	Kr	11007	Jackson, 72
CN	+	Ne	11007	Jackson, 72
CN	+	CN	10921	Coxon, 73
CN	+	H_2	11007	Jackson, 72
CN	+	ICN	11007	Jackson, 72
CN	+	CH_4	11007	Jackson, 72
CN^*	+	Ar	7622	Tereshchenko, 75
			9774	Tereshchenko, 77
CN^*	+	He	7622	Tereshchenko, 75
			9774	Tereshchenko, 77
CN^*	+	Ne	7622	Tereshchenko, 75
			9774	Tereshchenko, 77
CN^*	+	CO	7622	Tereshchenko, 75
CN^*	+	H_2	7622	Tereshchenko, 75
			9774	Tereshchenko, 77
CN^*	+	N_2	7622	Tereshchenko, 75
			9774	Tereshchenko, 77
CN^*	+	CH_4	7622	Tereshchenko, 75
CO	+	Ar	6640	Melton, 75
			10905	Slanger, 73
CO	+	He	6640	Melton, 75
			10905	Slanger, 73
CO	+	Hg	12535	Van Itallie, 72
CO	+	Kr	6640	Melton, 75
CO	+	Ne	6640	Melton, 75
CO	+	O	5868	Felder, 72
CO	+	Xe	6640	Melton, 75
CO	+	CO	5563	Taylor, 73
			6640	Melton, 75

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CO	+	CO	6715	Clark, 75
			11339	Slanger, 71
CO	+	D_2	5563	Taylor, 73
			6640	Melton, 75
			6715	Clark, 75
CO	+	H_2	5563	Taylor, 73
			6640	Melton, 75
			6715	Clark, 75
			11339	Slanger, 71
CO	+	N_2	5563	Taylor, 73
			6572	Young, 75
CO	+	NO	5563	Taylor, 73
			11339	Slanger, 71
CO	+	O_2	5563	Taylor, 73
			5868	Felder, 72
			6715	Clark, 75
			11339	Slanger, 71
CO	+	CO_2	5563	Taylor, 73
			11339	Slanger, 71
CO	+	CS_2	5563	Taylor, 73
CO	+	OCS	5563	Taylor, 73
CO	+	SO_2	5563	Taylor, 73
CO	+	C_2H_2	5563	Taylor, 73
			6715	Clark, 75
CO	+	C_2N_2	5563	Taylor, 73
CO	+	NH_3	5563	Taylor, 73
CO	+	CH_4	5563	Taylor, 73
			6715	Clark, 75
CO	+	C_2H_4	5563	Taylor, 73
			6715	Clark, 75
CO	+	SF_6	5563	Taylor, 73
			6640	Melton, 75
CO	+	C_2F_6	5563	Taylor, 73
CO	+	C_2H_6	5563	Taylor, 73
CO^*	+	Ar	5646	Comes, 73
			11900	Vikis, 78
CO^*	+	He	5646	Comes, 73
			11011	Wauchop, 72
			11900	Vikis, 78
CO^*	+	Hg	7983	Lee, 76
CO^*	+	Ne	5646	Comes, 73
CO^*	+	Xe	11900	Vikis, 78
CO^*	+	CO	11900	Vikis, 78
			12125	Fontijn, 71
CO^*	+	D_2	5646	Comes, 73
			11900	Vikis, 78
CO^*	+	H_2	5646	Comes, 73
			11900	Vikis, 78
CO^*	+	N_2	11011	Wauchop, 72
			11900	Vikis, 78

CO^*	+	N_2^*	11956	Fontijn, 70
CO^*	+	NO	11011	Wauchop, 72
CO^*	+	O_2	11900	Vikis, 78
CO^*	+	CO_2	6488	Ghosh, 72
			11011	Wauchop, 72
			11900	Vikis, 78
CO^{+1}	+	CO	5405	Comes, 72
			8849	Ryan, 76
CS	+	CO	9222	Black, 77
CS	+	H_2	9222	Black, 77
CS	+	N_2	9222	Black, 77
CS	+	NO	9222	Black, 77
CS	+	O_2	9222	Black, 77
CS	+	CO_2	9222	Black, 77
CS	+	CS_2	9222	Black, 77
CS^*	+	CO	15121	Hynes, 79
CS^*	+	O_2	15121	Hynes, 79
Cl_2	+	Ar	8911	Huie, 76
Cl_2	+	Cl_2	8911	Huie, 76
DF^*	+	He	7158	Wendelken, 75
DF^*	+	DF	7158	Wendelken, 75
DF^*	+	CO_2	14819	Basov, 71
GeF	+	He	12767	Anderson, 78
GeF	+	N_2	12767	Anderson, 78
GeF	+	SF_6	12767	Anderson, 78
HF^*	+	He	7158	Wendelken, 75
H_2^*	+	H_2	12122	Center, 71
He_2	+	He	5406	Collins, 72
			7741	Collins, 76
			8119	Gauthier, 76
			9620	Nakata, 77
He_2^*	+	Ar	9811	Lee, 77
			11105	Pitchford, 78
He_2^*	+	Ne	9811	Lee, 77
He_2^*	+	CO	9811	Lee, 77
He_2^*	+	He_2^*	9777	Myers, 77
He_2^*	+	N_2	9777	Myers, 77
			9811	Lee, 77
He_2^*	+	O_2	9777	Myers, 77
He_2^*	+	CO_2	9811	Lee, 77
He_2^*	+	CH_4	9811	Lee, 77
$HgBr^*$	+	Ar	14001	Eden, 79
$HgBr^*$	+	He	14001	Eden, 79
$HgBr^*$	+	Hg	14001	Eden, 79
$HgBr^*$	+	Ne	14001	Eden, 79
$HgBr^*$	+	Xe	14001	Eden, 79
$HgBr^*$	+	Br_2	14001	Eden, 79

$HgBr^*$	+	HgBr	14001	Eden, 79
$HgBr^*$	+	N_2	14001	Eden, 79
$HgBr^*$	+	$HgBr_2$	14001	Eden, 79
$HgBr^*$	+	CCl_2Br_2	14001	Eden, 79
$HgBr^*$	+	CH_3Br	14001	Eden, 79
$HgCl^*$	+	Xe	12754	Mandl, 78
$HgCl^*$	+	Cl_2	12754	Mandl, 78
$HgCl^*$	+	HCl	12754	Mandl, 78
$HgCl^*$	+	CCl_4	12754	Mandl, 78
Hg_2	+	Hg	13411	Skonieczny, 74
Hg_2	+	N_2	13400	Phaneuf, 73
			13411	Skonieczny, 74
ICl	+	Ar	14269	Harris, 79
ICl	+	Ne	14269	Harris, 79
ICl	+	Xe	14269	Harris, 79
ICl	+	Cl_2	14269	Harris, 79
ICl	+	D_2	14269	Harris, 79
ICl	+	HCl	14269	Harris, 79
ICl	+	H_2	14269	Harris, 79
ICl	+	ICl	9902	Clyne, 77
			14269	Harris, 79
ICl	+	CO_2	14269	Harris, 79
ICl	+	SF_6	14269	Harris, 79
I_2	+	I	10915	Schweid, 73
I_2^*	+	Ar	5565	Capelle, 73
			6660	Bugrim, 74
			8892	Callear, 76
I_2^*	+	He	5565	Capelle, 73
			6660	Bugrim, 74
I_2^*	+	Kr	5565	Capelle, 73
			6660	Bugrim, 74
I_2^*	+	Ne	5565	Capelle, 73
			6660	Bugrim, 74
			8892	Callear, 76
I_2^*	+	Xe	5565	Capelle, 73
I_2^*	+	Br_2	5565	Capelle, 73
I_2^*	+	CO	6660	Bugrim, 74
I_2^*	+	H_2	5565	Capelle, 73
			6660	Bugrim, 74
I_2^*	+	I_2	5565	Capelle, 73
			8841	Sakurai, 76
			11785	Clark, 78
			12095	Sakurai, 71
I_2^*	+	N_2	5565	Capelle, 73
			6660	Bugrim, 74
I_2^*	+	NO	5565	Capelle, 73
I_2^*	+	O_2	5565	Capelle, 73

I_2^*	+	O_2	6660	Bugrim,	74
			8892	Callear,	76
I_2^*	+	CO_2	5565	Capelle,	73
			6660	Bugrim,	74
			8892	Callear,	76
I_2^*	+	CF_4	8892	Callear,	76
I_2^*	+	SF_6	5565	Capelle,	73
I_2^*	+	C_3H_8	8892	Callear,	76
K_2	+	He	10467	Grushevskii,	77
K_2	+	K	10467	Grushevskii,	77
K_2	+	Xe	10467	Grushevskii,	77
K_2^*	+	K	7823	Kraulinya,	75
			8125	Kopeikina,	75
			8204	Kraulinya,	76
			9270	Lemont,	77
KrF	+	Ar	11805	Eden,	78
KrF	+	Kr	11805	Eden,	78
KrF	+	F_2	11805	Eden,	78
KrF^*	+	Ar	10197	Rokni,	77
KrF^*	+	Kr	10197	Rokni,	77
KrF^*	+	F_2	10197	Rokni,	77
			11294	Quigley,	78
			12872	Jacob,	78
Kr_2^*	+	Xe	10574	Cheshnovsky,	73
Kr_2^*	+	F_2	11295	Quigley,	78
ND	+	Ar	8906	Gelernt,	76
ND	+	He	8906	Gelernt,	76
ND	+	H_2	8906	Gelernt,	76
ND	+	N_2	8906	Gelernt,	76
ND	+	ND_3	8906	Gelernt,	76
ND^*	+	D_2	9195	Zetzsch,	77
ND^*	+	HD	9195	Zetzsch,	77
ND^*	+	D_2O	9195	Zetzsch,	77
ND^*	+	C_2D_2	9195	Zetzsch,	77
ND^*	+	CD_4	9195	Zetzsch,	77
ND^*	+	C_2D_4	9195	Zetzsch,	77
NF	+	N_2	12445	Clyne,	70
NF^*	+	Bi	13337	Capelle,	78
NH	+	Ar	6775	Zetzsch,	75
			7646	Gelernt,	75
			8906	Gelernt,	76
NH	+	He	8906	Gelernt,	76
NH	+	N	8906	Gelernt,	76
NH	+	O	8906	Gelernt,	76
NH	+	CO	7646	Gelernt,	75
NH	+	H_2	8906	Gelernt,	76
NH	+	N_2	8906	Gelernt,	76

NH	+	O_2	7646	Gelernt,	75
NH	+	NH_3	6775	Zetzsch,	75
			7646	Gelernt,	75
NH	+	CH_4	7646	Gelernt,	75
NH^*	+	D_2	9195	Zetzsch,	77
NH^*	+	HD	9195	Zetzsch,	77
NH^*	+	D_2O	9195	Zetzsch,	77
NH^*	+	C_2D_2	9195	Zetzsch,	77
NH^*	+	CD_4	9195	Zetzsch,	77
NH^*	+	C_2D_4	9195	Zetzsch,	77
N_2	+	Ar	7675	Heidner III,	76
			11936	Setser,	70
N_2	+	Hg	15299	Callear,	71
N_2	+	N	8510	Vidaud,	76
N_2	+	Ar_2	9642	Touzeau,	77
N_2	+	CO	6767	Dreyer,	74
			15299	Callear,	71
N_2	+	H_2	15299	Callear,	71
N_2	+	I_2	9869	Mandl,	77
N_2	+	N_2	5384	Dreyer,	73
			6767	Dreyer,	74
			7675	Heidner III,	76
			8394	Shemansky,	76
			8510	Vidaud,	76
			8821	Burns,	76
			10563	Hays,	73
			10885	Hays,	73
			11945	Mitchell,	70
N_2	+	NO	6767	Dreyer,	74
			9869	Mandl,	77
			15299	Callear,	71
N_2	+	O_2	6654	Albugues,	74
			6767	Dreyer,	74
			11945	Mitchell,	70
			15299	Callear,	71
N_2	+	CO_2	6654	Albugues,	74
			6767	Dreyer,	74
N_2	+	H_2O	6654	Albugues,	74
N_2	+	N_2O	15299	Callear,	71
N_2	+	C_2H_2	15299	Callear,	71
N_2	+	NH_3	6767	Dreyer,	74
			15299	Callear,	71
N_2	+	CH_4	6654	Albugues,	74
N_2	+	C_2H_4	5384	Dreyer,	73
			15299	Callear,	71
N_2	+	SF_6	7675	Heidner III,	7
			11241	Sutton,	78
N_2	+	C_2H_6	5384	Dreyer,	73
			15299	Callear,	71
N_2	+	C_3H_8	15299	Callear,	71

N_2	+	C_4H_{10}	15299	Callear,	71
$N_2^•$	+	Ar	12248	Levron,	78
$N_2^•$	+	H	8085	Dunn,	76
$N_2^•$	+	He	10142	Carr,	77
$N_2^•$	+	Hg	7983	Lee,	76
			12425	Callear,	70
$N_2^•$	+	N	8085	Dunn,	76
			11022	Flagan,	72
$N_2^•$	+	O	8085	Dunn,	76
$N_2^•$	+	CO	5403	Krisch,	68
			11337	Meyer,	71
			12125	Fontijn,	71
			12526	Gann,	72
			15261	Golde,	72
$N_2^•$	+	H_2	5403	Krisch,	68
			11337	Meyer,	71
			12248	Levron,	78
$N_2^•$	+	N_2	5383	Dreyer,	72
			5403	Krisch,	68
			9399	Ravodina,	76
			10142	Carr,	77
			12098	Calo,	71
			12248	Levron,	78
			13143	Vedenov,	76
			15114	Prasad,	78
			15201	Carlson,	79
			15394	Kalinin,	71
$N_2^•$	+	NO	12425	Callear,	70
			15114	Prasad,	78
$N_2^•$	+	O_2	5403	Krisch,	68
			8085	Dunn,	76
			11337	Meyer,	71
			13143	Vedenov,	76
			15114	Prasad,	78
$N_2^•$	+	CO_2	5403	Krisch,	68
			11337	Meyer,	71
			12526	Gann,	72
$N_2^•$	+	H_2O	13143	Vedenov,	76
$N_2^•$	+	N_2O	11337	Meyer,	71
$N_2^•$	+	SO_2	11337	Meyer,	71
$N_2^•$	+	C_2H_2	11337	Meyer,	71
$N_2^•$	+	C_2N_2	11337	Meyer,	71
$N_2^•$	+	NH_3	11337	Meyer,	71
			12526	Gann,	72
$N_2^•$	+	C_2H_4	11337	Meyer,	71
$N_2^•$	+	CH_6	11337	Meyer,	71
$N_2^•$	+	C_2H_6	11337	Meyer,	71
$N_2^•$	+	C_3H_6	11337	Meyer,	71
$N_2^•$	+	C_4H_6	11337	Meyer,	71
$N_2^•$	+	C_6H_6	11337	Meyer,	71

$N_2^•$	+	C_4H_8	11337	Meyer,	71
N_2^{+1}	+	Ar	5648	Tellinghuisen,	72
			6354	Freeman,	74
N_2^{+1}	+	He	5648	Tellinghuisen,	72
			6354	Freeman,	74
			11754	Sheridan,	78
N_2^{+1}	+	Ne	5648	Tellinghuisen,	72
N_2^{+1}	+	Xe	12501	Dreyer,	71
N_2^{+1}	+	CO	5648	Tellinghuisen,	72
			6354	Freeman,	74
			12501	Dreyer,	71
N_2^{+1}	+	H_2	5648	Tellinghuisen,	72
			6354	Freeman,	74
			11754	Sheridan,	78
			12501	Dreyer,	71
			14241	Tichy,	79
N_2^{+1}	+	N_2	5405	Comes,	72
			5648	Tellinghuisen,	72
			6330	Cartwright,	74
			6354	Freeman,	74
			8849	Ryan,	76
			11022	Flagan,	72
			11754	Sheridan,	78
			15160	MacKay,	71
N_2^{+1}	+	N_2^{+1}	11179	Gray,	72
N_2^{+1}	+	NO	5648	Tellinghuisen,	72
			6354	Freeman,	74
			12501	Dreyer,	71
			14241	Tichy,	79
			15114	Prasad,	78
			15160	MacKay,	71
N_2^{+1}	+	O_2	5648	Tellinghuisen,	72
			6354	Freeman,	74
			12501	Dreyer,	71
			14241	Tichy,	79
N_2^{+1}	+	CO_2	5648	Tellinghuisen,	72
			6354	Freeman,	74
			14241	Tichy,	79
N_2^{+1}	+	H_2O	12501	Dreyer,	71
			14241	Tichy,	79
N_2^{+1}	+	N_2O	5648	Tellinghuisen,	72
			6354	Freeman,	74
N_2^{+1}	+	C_2H_2	12501	Dreyer,	71
N_2^{+1}	+	NH_3	12501	Dreyer,	71
			14241	Tichy,	79
N_2^{+1}	+	CH_4	12501	Dreyer,	71
			14241	Tichy,	79
N_2^{+1}	+	SF_6	12501	Dreyer,	71
N_2^{+1}	+	C_2H_6	5648	Tellinghuisen,	72
			6354	Freeman,	74
NO	+	He	10259	Hikida,	75
			11890	Hikida,	78
NO	+	CO	10259	Hikida,	75

NO	+	CO	11890	Hikida, 78
NO	+	H_2	11890	Hikida, 78
NO	+	N_2	10259	Hikida, 75
			11890	Hikida, 78
NO	+	NO	8837	Breckenridge, 76
			10561	Melton, 73
			11890	Hikida, 78
NO	+	CO_2	11890	Hikida, 78
NO	+	CCl_4	14991	Stolte, 72
NO	+	CF_4	11890	Hikida, 78
NO^*	+	Ar	13475	Tereshchenko, 78
			14762	Black, 76
NO^*	+	He	8287	Hikida, 76
			14762	Black, 76
NO^*	+	Ne	13475	Tereshchenko, 78
NO^*	+	CO	8287	Hikida, 76
			13475	Tereshchenko, 78
			14762	Black, 76
NO^*	+	H_2	8287	Hikida, 76
			13475	Tereshchenko, 78
			14762	Black, 76
NO^*	+	N_2	8287	Hikida, 76
			13475	Tereshchenko, 78
			14762	Black, 76
NO^*	+	NO	6893	Benoist D'Azy, 75
			8287	Hikida, 76
			9837	Mohlmann, 77
			11331	Melton, 71
			14453	Nutt, 79
			15114	Prasad, 78
NO^*	+	O_2	5395	Melton, 72
			14762	Black, 76
NO^*	+	CO_2	8287	Hikida, 76
			14762	Black, 76
NO^*	+	N_2O	14762	Black, 76
NO^*	+	NH_3	14762	Black, 76
NO^*	+	CF_4	8287	Hikida, 76
NO^*	+	CH_4	14762	Black, 76
NO^*	+	C_2H_4	14762	Black, 76
NO^{+1}	+	Ar	13512	Glosik, 78
NO^{+1}	+	CO	13512	Glosik, 78
NO^{+1}	+	H_2	13512	Glosik, 78
NO^{+1}	+	N_2	13512	Glosik, 78
NO^{+1}	+	O_2	13512	Glosik, 78
Na_2	+	Ar	9269	Feinberg, 77
Na_2^*	+	K	8204	Kraulinya, 76
Na_2^*	+	Na	7823	Kraulinya, 75
			8204	Kraulinya, 76
OD	+	H_2	8121	German, 76
OD	+	N_2	8121	German, 76
OD	+	O_2	8121	German, 76
OH	+	Ar	6661	Hogan, 75
			12583	Becker, 74
OH	+	H	7039	Becker, 74
			12583	Becker, 74
OH	+	He	6661	Hogan, 75
OH	+	H_2	6661	Hogan, 75
			8121	German, 76
			12583	Becker, 74
OH	+	N_2	6661	Hogan, 75
			8121	German, 76
OH	+	O_2	8121	German, 76
OH	+	H_2O	14361	Quickenden, 78
OH^*	+	CO	14515	Clyne, 79
OH^*	+	H_2O	13894	Vinogradov, 78
OH^*	+	CCl_4	14515	Clyne, 79
OH^*	+	CCl_3F	14515	Clyne, 79
OH^*	+	CCl_2F_2	14515	Clyne, 79
OH^*	+	CF_2BrCl	14515	Clyne, 79
OH^*	+	CF_4	14515	Clyne, 79
OH^*	+	$CHFCl_2$	14515	Clyne, 79
OH^*	+	CHF_2Cl	14515	Clyne, 79
OH^*	+	CHF_3	14515	Clyne, 79
OH^*	+	CH_2F_2	14515	Clyne, 79
OH^*	+	CF_3CF_2H	14515	Clyne, 79
OH^*	+	CF_3CFH_2	14515	Clyne, 79
OH^*	+	CF_3CHCl_2	14515	Clyne, 79
OH^*	+	CF_3CH_2Cl	14515	Clyne, 79
OH^*	+	CF_2HCF_2H	14515	Clyne, 79
OH^*	+	CF_2HCFH_2	14515	Clyne, 79
OH^*	+	CH_3CCl_3	14515	Clyne, 79
OH^*	+	CH_3CF_2Cl	14515	Clyne, 79
OH^*	+	CH_3CF_3	14515	Clyne, 79
OH^*	+	CH_3CHF_2	14515	Clyne, 79
O_2	+	CO	9421	Thomas, 77
O_2	+	DCl	9421	Thomas, 77
O_2	+	HBr	8485	Braithwaite, 76
O_2	+	HCl	9421	Thomas, 77
O_2	+	H_2	9067	Braithwaite, 76
O_2	+	NO	5880	Ogryzlo, 73
			9421	Thomas, 77
O_2	+	O_2	10298	Parker, 74
O_2	+	CO_2	9421	Thomas, 77
O_2	+	D_2O	9421	Thomas, 77

O_2	+	H_2O	9421	Thomas,	77
O_2	+	N_2O	9421	Thomas,	77
O_2	+	C_2H_2	9421	Thomas,	77
O_2	+	NH_3	9421	Thomas,	77
$O_2^{\bullet}$	+	Ar	5645	Collins,	73
			11324	Findlay,	71
			11990	O'Brien Jr.,	70
			12071	Filseth,	70
			12463	Becker,	71
$O_2^{\bullet}$	+	He	5645	Collins,	73
			11324	Findlay,	71
			11990	O'Brien Jr.,	70
			12071	Filseth,	70
			12463	Becker,	71
$O_2^{\bullet}$	+	Kr	5645	Collins,	73
			12071	Filseth,	70
$O_2^{\bullet}$	+	Ne	12071	Filseth,	70
$O_2^{\bullet}$	+	O	14271	Slanger,	79
$O_2^{\bullet}$	+	Xe	5645	Collins,	73
			12071	Filseth,	70
$O_2^{\bullet}$	+	CO	5645	Collins,	73
			9817	Thomas,	77
			12039	Noxon,	70
			12071	Filseth,	70
$O_2^{\bullet}$	+	DCl	9817	Thomas,	77
$O_2^{\bullet}$	+	D_2	11990	O'Brien Jr.,	70
			14648	Kohse-Hoinghaus,	78
$O_2^{\bullet}$	+	HCl	9817	Thomas,	77
$O_2^{\bullet}$	+	HD	11990	O'Brien Jr.,	70
$O_2^{\bullet}$	+	H_2	5645	Collins,	73
			6679	Thomas,	75
			11324	Findlay,	71
			11990	O'Brien Jr.,	70
			12071	Filseth,	70
			12463	Becker,	71
			14648	Kohse-Hoinghaus,	78
$O_2^{\bullet}$	+	N_2	5645	Collins,	73
			8884	Martin,	76
			11990	O'Brien Jr.,	70
			12039	Noxon,	70
			12071	Filseth,	70
			12463	Becker,	71
			15209	Borrell,	79
$O_2^{\bullet}$	+	NO	7661	Yaron,	76
			8424	Giachardi,	76
			9817	Thomas,	77
			11990	O'Brien Jr.,	70
			12071	Filseth,	70
			12463	Becker,	71
$O_2^{\bullet}$	+	O_2	6679	Thomas,	75
			8884	Martin,	76

$O_2^{\bullet}$	+	O_2	9203	Lawton,	77
			9880	Borrell,	77
			10191	Parker,	77
			11136	Jones,	72
			11990	O'Brien Jr.,	70
			12039	Noxon,	70
			12071	Filseth,	70
			12092	Washida,	71
			12463	Becker,	71
			13352	Lee,	78
			15209	Borrell,	79
$O_2^{\bullet}$	+	CO_2	7661	Yaron,	76
			11324	Findlay,	71
			11990	O'Brien Jr.,	70
			12039	Noxon,	70
			12071	Filseth,	70
			12463	Becker,	71
$O_2^{\bullet}$	+	D_2O	9817	Thomas,	77
			11990	O'Brien Jr.,	70
$O_2^{\bullet}$	+	H_2O	6679	Thomas,	75
			11324	Findlay,	71
			11990	O'Brien Jr.,	70
			12071	Filseth,	70
			12463	Becker,	71
$O_2^{\bullet}$	+	N_2O	9817	Thomas,	77
			11324	Findlay,	71
			12071	Filseth,	70
			12463	Becker,	71
$O_2^{\bullet}$	+	NO_2	10924	Frankiewicz,	73
			11990	O'Brien Jr.,	70
			12071	Filseth,	70
			12463	Becker,	71
$O_2^{\bullet}$	+	O_3	5645	Collins,	73
			10191	Parker,	77
			12463	Becker,	71
			14271	Slanger,	79
$O_2^{\bullet}$	+	SO_2	11990	O'Brien Jr.,	70
$O_2^{\bullet}$	+	C_2H_2	9817	Thomas,	77
			12431	Stuhl,	70
			12463	Becker,	71
$O_2^{\bullet}$	+	NH_3	9817	Thomas,	77
			11990	O'Brien Jr.,	70
			12071	Filseth,	70
			12463	Becker,	71
$O_2^{\bullet}$	+	CCl_4	11990	O'Brien Jr.,	70
$O_2^{\bullet}$	+	CCl_2F_2	12463	Becker,	71
$O_2^{\bullet}$	+	CH_3Cl	12030	Ackerman,	70
$O_2^{\bullet}$	+	CH_4	12071	Filseth,	70
			12463	Becker,	71
$O_2^{\bullet}$	+	CH_3I	11990	O'Brien Jr.,	70
$O_2^{\bullet}$	+	C_2H_4	12030	Ackerman,	70
			12071	Filseth,	70
			12431	Stuhl,	70

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O_2^*	+	C_2H_4	12463	Becker, 71
O_2^*	+	CH_3OH	11990	O'Brien Jr., 70
O_2^*	+	CHOCHO	13655	Hippler, 78
O_2^*	+	SF_6	11324	Findlay, 71
			12071	Filseth, 70
			12463	Becker, 71
O_2^*	+	C_2H_6	12071	Filseth, 70
O_2^*	+	C_3H_6	12030	Ackerman, 70
			12431	Stuhl, 70
			12463	Becker, 71
O_2^*	+	C_2H_5OH	11990	O'Brien Jr., 70
O_2^*	+	C_2H_6CO	11990	O'Brien Jr., 70
O_2^*	+	C_3H_8	9817	Thomas, 77
			12463	Becker, 71
O_2^*	+	C_6H_6	11990	O'Brien Jr., 70
O_2^*	+	C_4H_8	12030	Ackerman, 70
			12431	Stuhl, 70
O_2^{+1}	+	Ar	10279	Lindinger, 75
			13512	Glosik, 78
O_2^{+1}	+	CO	10279	Lindinger, 75
			13512	Glosik, 78
O_2^{+1}	+	H_2	10279	Lindinger, 75
			13512	Glosik, 78
O_2^{+1}	+	N_2	10279	Lindinger, 75
			13512	Glosik, 78
O_2^{+1}	+	NO	13512	Glosik, 78
O_2^{+1}	+	O_2	5405	Comes, 72
			10279	Lindinger, 75
			13512	Glosik, 78
O_2^{+1}	+	CO_2	10279	Lindinger, 75
O_2^{+1}	+	CH_4	13966	Lindinger, 79
PH	+	PH_3	11897	Xuan, 78
PH^*	+	CO	14297	Lenzi, 79
PH^*	+	H_2	14297	Lenzi, 79
PH^*	+	N_2	14297	Lenzi, 79
PH^*	+	NO	14297	Lenzi, 79
SD	+	H	7039	Becker, 74
S_2	+	Ar	11097	McGee, 78
S_2	+	He	11097	McGee, 78
S_2	+	Xe	11097	McGee, 78
S_2	+	N_2	11097	McGee, 78
S_2	+	CH_4	11097	McGee, 78
S_2	+	C_2F_6	11097	McGee, 78
SiF	+	He	12767	Anderson, 78
XeF^*	+	Ar	9206	Rokni, 77
			9409	Brashears Jr., 77
			12972	Brashears Jr., 78
			13476	Eden, 78

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XeF^*	+	He	11776	Eden, 78
			12249	Fisher, 78
			12972	Brashears Jr., 78
XeF^*	+	Kr	12972	Brashears Jr., 78
XeF^*	+	Ne	11116	Rokni, 78
			12249	Fisher, 78
			12972	Brashears Jr., 78
			13476	Eden, 78
XeF^*	+	Xe	9409	Brashears Jr., 77
			11776	Eden, 78
			12249	Fisher, 78
			12972	Brashears Jr., 78
XeF^*	+	F_2	9409	Brashears Jr., 77
			11776	Eden, 78
			12249	Fisher, 78
			12972	Brashears Jr., 78
XeF^*	+	N_2	9409	Brashears Jr., 77
			12972	Brashears Jr., 78
XeF^*	+	CO_2	9409	Brashears Jr., 77
XeF^*	+	XeF_2	13476	Eden, 78
XeF^*	+	NF_3	9409	Brashears Jr., 77
			12249	Fisher, 78
			12972	Brashears Jr., 78
XeF^*	+	NH_3	11776	Eden, 78
XeF^*	+	CF_3Cl	12972	Brashears Jr., 78
XeF^*	+	CH_3F	12972	Brashears Jr., 78
XeF^*	+	CH_4	12972	Brashears Jr., 78
XeF^*	+	SF_6	12972	Brashears Jr., 78
XeO^*	+	O_2	6289	Tisone, 74
XeO^*	+	CO_2	6289	Tisone, 74
Xe_2	+	Xe	5540	Wallace, 73
Xe_2^*	+	Xe	10565	Johnson, 73
ZnHg	+	Hg	11804	Eden, 78
Ar_2F^*	+	F_2	12202	Chen, 78
C_3^*	+	He	13982	Becker, 79
CCl_2	+	O_2	10053	Huie, 77
CFCl	+	N_2	10053	Huie, 77
CFCl	+	O_2	10053	Huie, 77
CH_2	+	Ar	12067	Braun, 70
CH_2	+	He	12067	Braun, 70
CH_2	+	H_2	12067	Braun, 70
CH_2	+	N_2	12067	Braun, 70
CH_2	+	CH_4	12067	Braun, 70
CO_2^{+1}	+	Ar	5648	Tellinghuisen, 72
			6354	Freeman, 74
CO_2^{+1}	+	He	5648	Tellinghuisen, 72
			6354	Freeman, 74
CO_2^{+1}	+	Ne	5648	Tellinghuisen, 72

CO_2^{+1}	+	CO	5648	Tellinghuisen,	72
			6354	Freeman,	74
CO_2^{+1}	+	H_2	5648	Tellinghuisen,	72
			6354	Freeman,	74
CO_2^{+1}	+	N_2	5648	Tellinghuisen,	72
			6354	Freeman,	74
CO_2^{+1}	+	NO	5648	Tellinghuisen,	72
CO_2^{+1}	+	NO	6354	Freeman,	74
CO_2^{+1}	+	O_2	5648	Tellinghuisen,	72
			6354	Freeman,	74
CO_2^{+1}	+	CO_2	5648	Tellinghuisen,	72
			6354	Freeman,	74
			10981	Alderson,	73
CO_2^{+1}	+	N_2O	5648	Tellinghuisen,	72
			6354	Freeman,	74
CO_2^{+1}	+	C_2H_6	5648	Tellinghuisen,	72
			6354	Freeman,	74
$H_2O^{\bullet}$	+	H_2O	13143	Vedenov,	76
			14825	Sarjeant,	72
$HNO^{\bullet}$	+	N_2	14002	Yamada,	79
$Kr_2F^{\bullet}$	+	Kr	11295	Quigley,	78
$Kr_2F^{\bullet}$	+	F_2	11295	Quigley,	78
NH_2	+	Ar	5857	Lenzi,	72
NH_2	+	He	5857	Lenzi,	72
NH_2	+	Kr	5857	Lenzi,	72
NH_2	+	Ne	5857	Lenzi,	72
NH_2	+	Xe	5857	Lenzi,	72
NH_2	+	H_2	5857	Lenzi,	72
NH_2	+	NH_3	5857	Lenzi,	72
NH_2	+	CH_4	5857	Lenzi,	72
$NH_2^{\bullet}$	+	Ar	7307	Halpern,	75
$NH_2^{\bullet}$	+	He	7307	Halpern,	75
$NH_2^{\bullet}$	+	CO	7307	Halpern,	75
$NH_2^{\bullet}$	+	H_2	7307	Halpern,	75
$NH_2^{\bullet}$	+	N_2	7307	Halpern,	75
$NH_2^{\bullet}$	+	NO	7206	Hancock,	75
$NH_2^{\bullet}$	+	NH_3	7307	Halpern,	75
			15034	Donnelly,	79
$NH_2^{\bullet}$	+	CH_4	7307	Halpern,	75
N_2O^{+1}	+	Ar	5648	Tellinghuisen,	72
			6354	Freeman,	74
N_2O^{+1}	+	He	5648	Tellinghuisen,	72
			6354	Freeman,	74
N_2O^{+1}	+	Ne	5648	Tellinghuisen,	72
N_2O^{+1}	+	CO	5648	Tellinghuisen,	72
			6354	Freeman,	74
N_2O^{+1}	+	H_2	5648	Tellinghuisen,	72
			6354	Freeman,	74

N_2O^{+1}	+	N_2	5648	Tellinghuisen,	72
			6354	Freeman,	74
N_2O^{+1}	+	NO	5648	Tellinghuisen,	72
			6354	Freeman,	74
N_2O^{+1}	+	O_2	5648	Tellinghuisen,	72
			6354	Freeman,	74
N_2O^{+1}	+	CO_2	5648	Tellinghuisen,	72
			6354	Freeman,	74
N_2O^{+1}	+	N_2O	5648	Tellinghuisen,	72
			6354	Freeman,	74
			10981	Alderson,	73
N_2O^{+1}	+	C_2H_6	5648	Tellinghuisen,	72
			6354	Freeman,	74
NO_2	+	NO_2	11989	Sakurai,	70
$NO_2^{\bullet}$	+	Ar	14649	Nokes,	78
$NO_2^{\bullet}$	+	O_2	8424	Giachardi,	76
			10924	Frankiewicz,	73
			14649	Nokes,	78
$NO_2^{\bullet}$	+	NO_2	12080	Keyser,	71
			14649	Nokes,	78
$O_3^{\bullet}$	+	O_2	10258	Von Rosenberg	J75
SO_2	+	SO_2	9514	Su,	77
			10387	Brus,	74
			12859	Strickler,	78
$SO_2^{\bullet}$	+	CH_4	12244	Wampler,	78
$SO_2^{\bullet}$	+	C_2H_6	12244	Wampler,	78
$SO_2^{\bullet}$	+	C_3H_8	12244	Wampler,	78
$CH_3^{\bullet}$	+	Ar	12548	Rice,	73
$CH_3^{\bullet}$	+	He	12548	Rice,	73
$CH_3^{\bullet}$	+	N_2	12548	Rice,	73
$CH_3^{\bullet}$	+	O_2	12548	Rice,	73
$CH_3^{\bullet}$	+	CH_3I	12548	Rice,	73
Cl_2CS	+	Cl_2CS	9905	Oka,	77
D_2CO	+	Ar	14756	Skubnevskaya,	78
D_2CO	+	N_2O	14756	Skubnevskaya,	78
D_2CO	+	H_2CO	14756	Skubnevskaya,	78
D_2CO	+	CCl_4	14756	Skubnevskaya,	78
D_2CO	+	CH_3CN	14756	Skubnevskaya,	78
D_2CO	+	SF_6	14756	Skubnevskaya,	78
D_2CO	+	C_6H_6	14756	Skubnevskaya,	78
H_2CO	+	H_2CO	12101	Sakurai,	71
$H_2CO^{\bullet}$	+	Ar	11899	Shibuya,	78
$H_2CO^{\bullet}$	+	CO	11899	Shibuya,	78
$H_2CO^{\bullet}$	+	N_2	11899	Shibuya,	78
$H_2CO^{\bullet}$	+	NO	11899	Shibuya,	78
$H_2CO^{\bullet}$	+	O_2	11899	Shibuya,	78
$H_2CO^{\bullet}$	+	H_2CO	11899	Shibuya,	78

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H_2CO^*	+	CH_2F_2	11899	Shibuya, 78
NH_3	+	OCS	6533	Chien, 75
NH_3	+	NH_3	6533	Chien, 75
NH_3	+	CHF_3	6533	Chien, 75
NH_3	+	CH_3F	6533	Chien, 75
CD_4	+	Cs	13168	Baylis, 73
CD_3H	+	Cs	13168	Baylis, 73
CH_2D_2	+	Cs	13168	Baylis, 73
CH_3D	+	Cs	13168	Baylis, 73
CH_4	+	Cs	13168	Baylis, 73
C_3H_2O	+	Ar	11173	Thayer, 72
C_3H_2O	+	He	11173	Thayer, 72
C_3H_2O	+	Kr	11173	Thayer, 72
C_3H_2O	+	Ne	11173	Thayer, 72
C_3H_2O	+	Xe	11173	Thayer, 72
C_3H_2O	+	CO	11173	Thayer, 72
C_3H_2O	+	H_2	11173	Thayer, 72
C_3H_2O	+	O_2	11173	Thayer, 72
C_3H_2O	+	SO_2	11173	Thayer, 72
C_3H_2O	+	NH_3	11173	Thayer, 72
C_3H_2O	+	CCl_4	11173	Thayer, 72
C_3H_2O	+	$CHBr_3$	11173	Thayer, 72
C_3H_2O	+	$CHCl_3$	11173	Thayer, 72
C_3H_2O	+	CH_3Br	11173	Thayer, 72
C_3H_2O	+	CH_3Cl	11173	Thayer, 72
C_3H_2O	+	CH_3F	11173	Thayer, 72
C_3H_2O	+	CH_4	11173	Thayer, 72
C_3H_2O	+	C_3H_2O	11173	Thayer, 72
C_3H_2O	+	CH_3CN	11173	Thayer, 72
CHOCHO	+	Ar	10277	Beyer, 75
CHOCHO	+	He	10277	Beyer, 75
CHOCHO	+	Ne	10277	Beyer, 75
CHOCHO	+	Xe	10277	Beyer, 75
CHOCHO	+	CO	10277	Beyer, 75
CHOCHO	+	D_2	10277	Beyer, 75
CHOCHO	+	H_2	10277	Beyer, 75
CHOCHO	+	N_2	10277	Beyer, 75
CHOCHO	+	NO	11062	Yardley, 72
CHOCHO	+	O_2	10277	Beyer, 75
			11062	Yardley, 72
CHOCHO	+	N_2O	10277	Beyer, 75
CHOCHO	+	CCl_4	10277	Beyer, 75
CHOCHO	+	CH_3Cl	10277	Beyer, 75
CHOCHO	+	CH_3F	10277	Beyer, 75
CHOCHO	+	CH_4	10277	Beyer, 75

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CHOCHO	+	C_2Cl_4	10277	Beyer, 75
CHOCHO	+	C_2H_4	10277	Beyer, 75
CHOCHO	+	CH_3CN	10277	Beyer, 75
CHOCHO	+	CH_3OH	10277	Beyer, 75
CHOCHO	+	CHOCHO	10277	Beyer, 75
			11062	Yardley, 72
			12570	Frad, 73
CHOCHO	+	CH_3NO_2	10277	Beyer, 75
CHOCHO	+	C_2H_6	10277	Beyer, 75
CHOCHO	+	C_2H_5OH	10277	Beyer, 75
CHOCHO	+	C_6H_5Cl	10277	Beyer, 75
CHOCHO	+	C_6H_5F	10277	Beyer, 75
CHOCHO	+	C_6H_6	10277	Beyer, 75
SF_6^-	+	SF_6	12850	Odom, 75
UF_6	+	UF_6	9887	Andreoni, 77
			11585	Wampler, 78
UF_6^*	+	Ar	11583	Wampler, 78
UF_6^*	+	N_2	11583	Wampler, 78
UF_6^*	+	O_2	11583	Wampler, 78
UF_6^*	+	C_2H_2	11584	Wampler, 78
UF_6^*	+	CH_4	11584	Wampler, 78
UF_6^*	+	C_2H_4	11584	Wampler, 78
UF_6^*	+	C_2F_6	11584	Wampler, 78
UF_6^*	+	C_2H_6	11584	Wampler, 78
C_2H_5Br	+	Ar	7101	Goans, 75
C_2H_5Br	+	N_2	7101	Goans, 75
$C_6D_6^*$	+	C_6H_6	9154	Parmenter, 77
$C_6H_5Br^{+1}$	+	CO_2	14537	Kim, 79
$C_6H_5Br^{+1}$	+	CH_4	14537	Kim, 79
$C_6H_5Br^{+1}$	+	SF_6	14537	Kim, 79
$C_6H_5Br^{+1}$	+	C_3H_8	14537	Kim, 79
$C_6H_5Br^{+1}$	+	C_6D_6	14537	Kim, 79
$C_6H_5Br^{+1}$	+	C_6H_5Br	14537	Kim, 79
$C_6H_5Br^{+1}$	+	C_6H_5F	14537	Kim, 79
$C_6H_5Br^{+1}$	+	C_6H_6	14537	Kim, 79
$C_6H_6^*$	+	O_2	12050	Morikawa, 70
$C_6H_6^*$	+	C_6H_6	12014	Nishikawa, 70

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Ar^*	+	Kr	8899	Martin, 76
Ar^*	+	Xe	8899	Martin, 76
Ar^*	+	N_2	8444	Schweid, 76
			14262	Cutshall, 79
Ar^*			15249	Setser, 74

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Cs^*	+	He	12746	Gousset, 78
Cs^*	+	Xe	8999	Marek, 76
He^*	+	He	12878	Dubreuil, 78
			13647	Zhitnikov, 77
			15064	Bagaev, 79
			15429	Latypov, 75
He^*	+	Ne	8899	Martin, 76
Hg	+	Hg	15408	Saintout, 73
Hg^*	+	Cd	14967	Cheron, 75
Hg^*	+	OH	7699	Vikis, 75
I^*	+	Ar	13480	Ershov, 78
I^*	+	Xe	13480	Ershov, 78
I^*	+	SF_6	13480	Ershov, 78
Kr^*	+	Br	6970	Persin, 75
Kr^*	+	Xe	12867	Hugon, 78
Kr^*	+	CO	11895	Vikis, 78
N^{+1}	+	Ar	13581	Vujovic, 72
			14679	Vujovic, 79
Na^*	+	CO	14750	Hsu, 76
Na^*	+	D_2	14526	Hertel, 79
Na^*	+	H_2	14526	Hertel, 79
Nd^*	+	Nd	14643	Chen, 78
O^*	+	N_2	12979	Sobral, 78
O^*	+	O_2	12979	Sobral, 78
O^*	+	N_2O	13964	Davidson, 79
Xe^*	+	Xe	12867	Hugon, 78
Xe^*	+	CO	8374	Watadani, 76
Xe^*			15249	Setser, 74
HBr^*	+	Xe	14767	Helvajian, 79
HBr^*	+	Br_2	14767	Helvajian, 79
HBr^*	+	CO	14767	Helvajian, 79
HBr^*	+	H_2	14767	Helvajian, 79
HBr^*	+	N_2	14767	Helvajian, 79
HBr^*	+	O_2	14767	Helvajian, 79
HBr^*	+	CO_2	14767	Helvajian, 79
$HgCl^*$	+	Ar	12754	Mandl, 78
$HgCl^*$	+	He	12754	Mandl, 78
$HgCl^*$	+	N_2	12754	Mandl, 78
ICl	+	CO	11910	Hsu, 78
I_2	+	CO	11910	Hsu, 78
I_2^*	+	Ar	5758	Bugrim, 73
I_2^*	+	He	5758	Bugrim, 73
I_2^*	+	N_2	5758	Bugrim, 73
KrF	+	He	13479	Eden, 78

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KrF	+	Ne	13479	Eden, 78
KrF	+	Xe	13479	Eden, 78
KrF	+	NF_3	13479	Eden, 78
KrF^*	+	F	12872	Jacob, 78
N_2	+	Ar	15204	Ochkin, 78
N_2	+	N_2	15204	Ochkin, 78
N_2			15004	Anketell, 70
N_2^*	+	Ar	14538	Casassa, 79
N_2^*	+	Bi	9151	Capelle, 77
N_2^*	+	O	12423	Cartwright, 78
N_2^*	+	CO	5401	Golde, 72
N_2^*	+	N_2	12423	Cartwright, 78
N_2^*	+	NO	7819	Haydon, 75
			12423	Cartwright, 78
N_2^*	+	O_2	12423	Cartwright, 78
Na_2^*	+	K	7823	Kraulinya, 75
			9120	Kopeikina, 76
Na_2^*	+	Na	9120	Kopeikina, 76
OH	+	N_2	6521	Wang, 75
OH	+	H_2O	6521	Wang, 75
O_2^*	+	HF	9178	Madronich, 77
O_2^*	+	CO_2	6064	Ogryzlo, 74
O_2^*	+	H_2O	6064	Ogryzlo, 74
O_2^*	+	HNO	14053	Ishiwata, 78
O_2^{+1}	+	N_2	15161	MacKay, 72
O_2^{+1}	+	O_2	15161	MacKay, 72
NO_2	+	CO	11910	Hsu, 78
SO_2	+	N_2	12859	Strickler, 78
SO_2	+	O_2	9924	Su, 77
			12859	Strickler, 78
SO_2	+	CO_2	12859	Strickler, 78
SO_2	+	SO_2	5765	Brus, 73
Molecules			10254	Burke, 75
– –			13007	Homaidan, 78
			14329	Stebbings, 77
			15006	Callear, 78

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Ar^*	14034	Golde, 77
He^*	14034	Golde, 77
Kr^*	14034	Golde, 77
Ne^*	14034	Golde, 77
Xe^*	14034	Golde, 77

Ag^*	+	Ag	13288	Rebane, 74
Ar	+	Ar^{+1}	13528	Johnson, 70
Ar^*	+	D_2	9227	Huo, 77
Ar^*	+	HD	9227	Huo, 77
Ar^*	+	H_2	9227	Huo, 77
Ar^*	+	N_2^*	11175	Cosby, 72
Au^*	+	Au	13288	Rebane, 74
Br	+	D_2	8086	Zimmerman, 75
Br	+	HD	8086	Zimmerman, 75
Br	+	H_2	8086	Zimmerman, 75
Cd	+	N_2	7244	Phillips, 75
Cl	+	D_2	8086	Zimmerman, 75
Cl	+	HD	8086	Zimmerman, 75
Cl	+	H_2	8086	Zimmerman, 75
Cl^*	+	H_2	11966	Snider, 70
Cs	+	Ar	13277	Rebane, 73
Cs	+	Cs	7714	Meunier, 76
Cs	+	He	7654	Olson, 75
			13277	Rebane, 73
Cs	+	Kr	13277	Rebane, 73
Cs	+	Ne	13277	Rebane, 73
Cs	+	Xe	13277	Rebane, 73
Cs	+	N_2	13437	Franz, 75
Cs^*	+	CO	14824	Fisher, 71
Cs^*	+	N_2	14824	Fisher, 71
			14973	Lijnse, 74
Cu^*	+	Cu	13288	Rebane, 74
D^*	+	Ar	10682	Olson, 77
D^*	+	H	13953	Harel, 79
F	+	H^{+1}	14267	McCurdy, 79
F	+	Xe	14267	McCurdy, 79
F	+	D_2	8086	Zimmerman, 75
			12199	Rebentrost, 78
F	+	HD	8086	Zimmerman, 75
F	+	H_2	8086	Zimmerman, 75
			8894	De Vries, 76
			9079	De Vries, 77
			10416	Tully, 74
			13349	Thomas, 78
F^*	+	H^{+1}	14657	Meyer, 79
F^*	+	H_2	8124	Rebentrost, 76
			9776	Rebentrost, 77
			13969	Wyatt, 79
			14286	De Vries, 79
			14501	Wyatt, 79
			14791	Meyer, 79
H	+	D	9002	Kohmoto, 76

H	+	H^*	14781	Shirai, 79
H	+	H_2	15235	Flannery, 73
H^*	+	Ar	5408	Byron Jr., 73
			7821	Roussel, 75
			10682	Olson, 77
			13710	Levy II, 71
H^*	+	Cs	8007	Olson, 76
H^*	+	H	6319	Capitelli, 74
			13953	Harel, 79
			14987	Flannery, 71
			15038	Janev, 79
H^*	+	H^*	14252	Shirai, 79
H^*	+	He	5408	Byron Jr., 73
			7821	Roussel, 75
			13184	Byron Jr., 70
			13593	Bell, 73
			13702	Byron Jr., 71
			13710	Levy II, 71
H^*	+	Kr	5408	Byron Jr., 73
			13710	Levy II, 71
H^*	+	Ne	5408	Byron Jr., 73
			13699	Baragiola, 71
			13710	Levy II, 71
H^*	+	H_2	7821	Roussel, 75
H^*	+	N_2	6680	Dose, 74
H^*	+	CO_2	6680	Dose, 74
H^*	+	CCl_4	6680	Dose, 74
H^*	+	CH_3I	6680	Dose, 74
He^*	+	He	7264	Shipsey, 75
			8009	Cohen, 76
			11018	Wellenstein, 72
			13198	Dupont-Roc, 71
			13801	Jordan, 78
			15163	Kodaira, 71
He^*	+	Ne	14656	Haberland, 79
He^{+1}	+	Ar	9204	Zhdanov, 76
He^{+1}	+	He	9180	Bell, 77
			9204	Zhdanov, 76
He^{+1}	+	Kr	9204	Zhdanov, 76
He^{+1}	+	Xe	9204	Zhdanov, 76
Hf^*	+	CO_2	13298	Gruzdev, 74
			15188	Mach, 72
Hg	+	D_2	9615	French, 77
Hg	+	HD	9615	French, 77
Hg	+	H_2	9615	French, 77
Hg^*	+	CO	11174	Gonzalez, 72
			15199	Sibata, 79
Hg^*	+	H_2	15199	Sibata, 79
Hg^*	+	N_2	15199	Sibata, 79
Hg^*	+	NO	15199	Sibata, 79

Hg^*	+	CO_2	15199	Sibata,	79
Hg^*	+	NH_3	15199	Sibata,	79
Hg^*	+	CH_4	15199	Sibata,	79
Hg^*	+	C_2H_4	15199	Sibata,	79
Hg^*	+	C_2H_6	15199	Sibata,	79
Hg^*	+	C_3H_8	15199	Sibata,	79
I	+	D_2	7845	French,	75
			9615	French,	77
I	+	HD	7845	French,	75
			9615	French,	77
I	+	H_2	7845	French,	75
			9615	French,	77
K	+	Ar	7654	Olson,	75
K	+	He	7654	Olson,	75
K	+	Ne	7654	Olson,	75
K^*	+	Ar	13257	Gordeev,	71
K^*	+	He	13257	Gordeev,	71
K^*	+	K	13288	Rebane,	74
K^*	+	Kr	13257	Gordeev,	71
K^*	+	Ne	13257	Gordeev,	71
K^*	+	Xe	13257	Gordeev,	71
K^*	+	CO	14824	Fisher,	71
K^*	+	H_2	9792	Bottcher,	77
K^*	+	N_2	9792	Bottcher,	77
			12573	Andreev,	73
			14824	Fisher,	71
			14898	Andreev,	72
			14973	Lijnse,	74
Li^*	+	He	13665	Reid,	75
Li^*	+	CO	14761	Barker,	76
			14824	Fisher,	71
Li^*	+	D_2	14761	Barker,	76
Li^*	+	H_2	9792	Bottcher,	77
			14761	Barker,	76
Li^*	+	I_2	14761	Barker,	76
Li^*	+	N_2	9792	Bottcher,	77
			14761	Barker,	76
			14824	Fisher,	71
Li^*	+	CO_2	14761	Barker,	76
Li^*	+	C_2H_4	14761	Barker,	76
N^*	+	N_2	14762	Black,	76
Na	+	Ar	7654	Olson,	75
Na	+	He	7654	Olson,	75
			9875	Lewis,	77
Na	+	Na	7714	Meunier,	76
Na	+	Ne	7654	Olson,	75
Na	+	N_2	7200	Bottcher,	75

Na	+	N_2	8857	Barker,	76
Na^*	+	Ar	8148	Pascale,	76
			12261	Pascale,	78
			14284	Grynberg,	79
			14824	Fisher,	71
			15061	De Prunele,	79
			15136	Matsuzawa,	79
Na^*	+	He	8148	Pascale,	76
			9629	Gaussorgues,	77
			12261	Pascale,	78
			12530	Masnou-Seeuws,	72
			12550	Dashevskaya,	73
			13750	Lewis,	72
			14279	Derouard,	78
			14284	Grynberg,	79
			14824	Fisher,	71
			15061	De Prunele,	79
			15136	Matsuzawa,	79
Na^*	+	Kr	8148	Pascale,	76
			9629	Gaussorgues,	77
			12261	Pascale,	78
			14284	Grynberg,	79
			14824	Fisher,	71
			15061	De Prunele,	79
Na^*	+	Ne	8148	Pascale,	76
			10664	Pascale,	77
			12261	Pascale,	78
			14279	Derouard,	78
			14284	Grynberg,	79
			14824	Fisher,	71
			15061	De Prunele,	79
			15136	Matsuzawa,	79
Na^*	+	Xe	8148	Pascale,	76
			12261	Pascale,	78
			14284	Grynberg,	79
			14824	Fisher,	71
			15061	De Prunele,	79
Na^*	+	CO	14761	Barker,	76
			14824	Fisher,	71
Na^*	+	D_2	14761	Barker,	76
Na^*	+	H_2	9792	Bottcher,	77
			14739	McGuire,	79
			14761	Barker,	76
Na^*	+	I_2	14761	Barker,	76
Na^*	+	N_2	5370	Lijnse,	73
			9792	Bottcher,	77
			12573	Andreev,	73
			14761	Barker,	76
			14824	Fisher,	71
			14973	Lijnse,	74
			15061	De Prunele,	79
Na^*	+	CO_2	14761	Barker,	76
Na^*	+	C_2H_4	14761	Barker,	76
Ne^*	+	He	13554	Carrington,	71

Ne*	+	Ne	7242	Kruglevsky, 74
			11761	Cohen, 78
			13554	Carrington, 71
			15246	Schneider, 74
O	+	O	12546	Olson, 73
O	+	CO	10267	Tully, 75
O	+	N$_2$	9571	Delgado-Barrio, 77
			10232	Gordeev, 77
O	+	N$_2$	10262	Zahr, 75
			10360	Tully, 74
			10570	Delos, 73
O*	+	Ar	10366	Julienne, 78
			11511	Kinnersly, 78
O*	+	Ar^{+1}	10366	Julienne, 78
O*	+	He	10366	Julienne, 78
			11511	Kinnersly, 78
O*	+	Kr	10366	Julienne, 78
			11511	Kinnersly, 78
O*	+	Kr^{+1}	10366	Julienne, 78
O*	+	Ne	10366	Julienne, 78
			11511	Kinnersly, 78
O*	+	O	7640	Krauss, 75
O*	+	Xe	10366	Julienne, 78
			11511	Kinnersly, 78
O*	+	Xe^{+1}	10366	Julienne, 78
O*	+	CO	15059	Kinnersly, 79
O*	+	N$_2$	14273	Villarreal, 79
Pb	+	D$_2$	6714	Ewing, 74
			9615	French, 77
Pb	+	HD	9615	French, 77
Pb	+	H$_2$	9615	French, 77
Rb	+	Ar	7654	Olson, 75
			9578	Gounand, 77
			13277	Rebane, 73
			13743	Papp, 72
Rb	+	He	7654	Olson, 75
			9182	Doebler, 77
			9578	Gounand, 77
			13277	Rebane, 73
			13743	Papp, 72
Rb	+	Kr	9182	Doebler, 77
			13277	Rebane, 73
Rb	+	Ne	7654	Olson, 75
			9578	Gounand, 77
			9875	Lewis, 77
			13277	Rebane, 73
			13620	Wilson, 74
			13743	Papp, 72
			14878	Shimoni, 75
Rb	+	Rb	7714	Meunier, 76
			9578	Gounand, 77

Rb	+	Xe	9182	Doebler, 77
			13277	Rebane, 73
Rb*	+	Ar	14725	De Prunele, 79
			15061	De Prunele, 79
			15136	Matsuzawa, 79
Rb*	+	He	10663	Brouillaud, 77
			14725	De Prunele, 79
			15061	De Prunele, 79
			15136	Matsuzawa, 79
Rb*	+	Kr	15061	De Prunele, 79
Rb*	+	Ne	15061	De Prunele, 79
Rb*	+	Rb	13288	Rebane, 74
Rb*	+	Xe	10663	Brouillaud, 77
			14725	De Prunele, 79
			15061	De Prunele, 79
			15136	Matsuzawa, 79
Rb*	+	CO	14824	Fisher, 71
Rb*	+	N$_2$	14824	Fisher, 71
			14973	Lijnse, 74
Rb*	+	CD$_4$	12237	Lawley, 78
Rb*	+	CH$_4$	12237	Lawley, 78
S*	+	Ar	10366	Julienne, 78
S*	+	He	10366	Julienne, 78
S*	+	Kr	10366	Julienne, 78
S*	+	Ne	10366	Julienne, 78
S*	+	Xe	10366	Julienne, 78
Se*	+	Ar	10366	Julienne, 78
Se*	+	He	10366	Julienne, 78
Se*	+	Kr	10366	Julienne, 78
Se*	+	Ne	10366	Julienne, 78
Se*	+	Xe	10366	Julienne, 78
T*	+	H	13953	Harel, 79
Te	+	D$_2$	9615	French, 77
Te	+	HD	7845	French, 75
			9615	French, 77
Te	+	H$_2$	6714	Ewing, 74
			7845	French, 75
			9615	French, 77
Tl	+	Ar	13277	Rebane, 73
Tl	+	He	13277	Rebane, 73
Tl	+	Kr	13277	Rebane, 73
Tl	+	Ne	13277	Rebane, 73
Tl	+	Xe	13277	Rebane, 73
Tl	+	D$_2$	7845	French, 75
			9615	French, 77
Tl	+	HD	7845	French, 75
			9615	French, 77
Tl	+	H$_2$	7845	French, 75

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Tl	+	H_2	9615	French, 77
Tl^*	+	CO	14824	Fisher, 71
Tl^*	+	N_2	14824	Fisher, 71
Tl^*	+	NO	14824	Fisher, 71
Tl^*	+	O_2	14824	Fisher, 71
Ar_2^*	+	Kr	14261	Oka, 79
Ar_2^*	+	Xe	14261	Oka, 79
CO^*	+	CO	7265	Slanger, 75
CO^*	+	N_2	7265	Slanger, 75
HCl	+	Xe^*	14731	Matsuzawa, 79
H_2^*	+	Ar	9208	Huo, 77
N_2	+	N_2	9527	Ravodina, 76
N_2^*	+	CO	14812	Deperasinska, 79
OH	+	C^{+1}	12775	Bouloy, 77
OH	+	H^{+1}	12775	Bouloy, 77
O_2	+	D_2	8324	Braithwaite, 76
O_2	+	HBr	8485	Braithwaite, 76
O_2	+	H_2	9067	Braithwaite, 76
O_2^*	+	CO	8324	Braithwaite, 76
			9420	Braithwaite, 77
O_2^*	+	D_2	9420	Braithwaite, 77
O_2^*	+	HBr	8324	Braithwaite, 76
			9420	Braithwaite, 77
O_2^*	+	HCl	8324	Braithwaite, 76
O_2^*	+	HD	8324	Braithwaite, 76
			9420	Braithwaite, 77
O_2^*	+	H_2	8324	Braithwaite, 76
			9420	Braithwaite, 77
O_2^*	+	N_2	8324	Braithwaite, 76
O_2^*	+	NO	8324	Braithwaite, 76
			9420	Braithwaite, 77
O_2^*	+	O_2	8324	Braithwaite, 76
CD_2	+	Ar	8839	Kulander, 76
CD_2	+	He	8839	Kulander, 76
CD_2	+	Kr	8839	Kulander, 76
CD_2	+	Ne	8839	Kulander, 76
CH_2	+	Ar	8839	Kulander, 76
			12467	Chu, 71
CH_2	+	He	8839	Kulander, 76
			12467	Chu, 71
CH_2	+	Kr	8839	Kulander, 76
CH_2	+	Ne	8839	Kulander, 76
CH_2	+	Xe	12467	Chu, 71
NO_2Cl	+	Ar	10169	Nordholm, 77
NO_2Cl	+	He	10169	Nordholm, 77
NO_2Cl	+	Kr	10169	Nordholm, 77

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NO_2Cl	+	Ne	10169	Nordholm, 77
NO_2Cl	+	Xe	10169	Nordholm, 77
NO_2Cl	+	H_2	10169	Nordholm, 77
NO_2Cl	+	N_2	10169	Nordholm, 77
NO_2Cl	+	CO_2	10169	Nordholm, 77
CD_4	+	Cs	13168	Baylis, 73
CD_3H	+	Cs	13168	Baylis, 73
CH_2D_2	+	Cs	13168	Baylis, 73
CH_3D	+	Cs	13168	Baylis, 73
CH_4	+	Cs	13168	Baylis, 73
CH_3CN	+	Ar	10169	Nordholm, 77
CH_3CN	+	He	10169	Nordholm, 77
CH_3CN	+	Kr	10169	Nordholm, 77
CH_3CN	+	Ne	10169	Nordholm, 77
CH_3CN	+	Xe	10169	Nordholm, 77
CH_3CN	+	H_2	10169	Nordholm, 77
CH_3CN	+	N_2	10169	Nordholm, 77
CH_3CN	+	CO_2	10169	Nordholm, 77
CH_3CN	+	HCN	10169	Nordholm, 77
C_6D_6	+	C_6D_6	11961	Selinger, 70
C_6H_6	+	C_6H_6	11961	Selinger, 70

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Ar^*	+	H_2	9208	Huo, 77
Cd	+	Ar	13284	Petrashen, 73
			15413	Tudorache, 73
Cd	+	He	13284	Petrashen, 73
			15413	Tudorache, 73
Cd	+	Kr	13284	Petrashen, 73
			15413	Tudorache, 73
Cd	+	Ne	13284	Petrashen, 73
			15413	Tudorache, 73
Cd	+	Xe	13284	Petrashen, 73
			15413	Tudorache, 73
Cd^*			15414	Tudorache, 74
Cs^*			12207	Series, 78
Cs^*	+	Cs	15076	Dashevskaya, 79
Cs^*	+	N_2	14897	Meitlis, 72
He^*	+	He	15044	Bagaev, 78
			15360	Kereselidze, 75
Hg	+	Ar	13284	Petrashen, 73
Hg	+	He	13284	Petrashen, 73
Hg	+	Hg	15408	Saintout, 73
Hg	+	Kr	13284	Petrashen, 73
Hg	+	Ne	13284	Petrashen, 73
Hg	+	Xe	13284	Petrashen, 73
Hg^*	+	Cd	14966	Cheron, 75

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Hg^*	+	Hg	7255	Barrat, 75
l	+	D_2	8086	Zimmerman, 75
l	+	HD	8086	Zimmerman, 75
l	+	H_2	8086	Zimmerman, 75
K^*	+	K	15076	Dashevskaya, 79
Na^*	+	Na	15076	Dashevskaya, 79
Na^*	+	Molecules	14765	Taylor, 79
Pb	+	Ar	13284	Petrashen, 73
Pb	+	He	13284	Petrashen, 73
Pb	+	Kr	13284	Petrashen, 73
Pb	+	Ne	13284	Petrashen, 73
Pb	+	Xe	13284	Petrashen, 73
Rb^*	+	Rb	15076	Dashevskaya, 79
N_2			15004	Anketell, 70
O_2^*	+	Molecules	9815	Thomas, 77
$C_5H_9^{+1}$	+	CO_2	14616	Forst, 79
$C_5H_9^{+1}$	+	SO_2	14616	Forst, 79
$C_5H_9^{+1}$	+	CD_4	14616	Forst, 79
$C_5H_9^{+1}$	+	CF_4	14616	Forst, 79
$C_5H_9^{+1}$	+	CH_2F_2	14616	Forst, 79
$C_5H_9^{+1}$	+	CH_3F	14616	Forst, 79
$C_5H_9^{+1}$	+	CH_4	14616	Forst, 79
$C_5H_9^{+1}$	+	C_2H_6	14616	Forst, 79
Molecules			13152	Solc, 78
– –			8234	Lin, 75
			8364	Vdovin, 75
			8445	Makowski, 76
			8827	Pilling, 76
			9563	Tudorache, 77
			10190	Feuillade, 77
			10339	Freed, 74
			10382	Miller, 77
			10440	Nitzan, 74
			10470	Omont, 77
			10896	Lin, 73
			11078	Miller, 72
			11775	Miller, 78
			11820	Arora, 78
			12490	Dashevskaya, 71
			12513	Gelbart, 72
			12630	Baer, 75
			12853	Herrick, 78
			12883	Mavroyannis, 78
			13271	Rebane, 72
			13282	Duman, 73
			13292	Rebane, 74
			13297	Dashevskaya, 75
			13585	Carrington, 73
			14253	Wassam Jr., 79
			14842	Elbel, 70
			14887	Massey, 72

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– –			15233	Kaminski, 72
			15382	Ermatchenko, 73

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He^*	+	Ar	14328	Manus, 77
He^*	+	H	14328	Manus, 77
He^*	+	H_2	14328	Manus, 77
– –			7999	Manus, 76
			8409	Niehaus, 71
			9538	Morgenstern, 76
			15154	Niehaus, 73
			15158	Wexler, 73
			15248	Hotop, 74
			15280	Leonas, 77

ORIGINAL DATA

Ar	+	He^*	13163	Howard, 72
Ar	+	Rb	15392	Bydin, 71
Ar^*	+	Ar	15011	Radler, 79
			15440	Holcombe, 72
Ar^*	+	Ca	14638	Winn, 78
Ar^*	+	Cd	13388	Riseberg, 73
			15182	Riseberg, 71
Ar^*	+	H	7963	Morgner, 75
Ar^*	+	Hg	6605	Illenberger, 75
Ar^*	+	Na	9450	Neynaber, 77
Ar^*	+	Zn	13388	Riseberg, 73
			15182	Riseberg, 71
Ar^*	+	CO	14903	Jones, 70
			15440	Holcombe, 72
Ar^*	+	N_2	14903	Jones, 70
			15440	Holcombe, 72
Ar^*	+	NO	6780	West, 75
			11020	Holcombe, 72
			15362	Clark, 72
Ar^*	+	O_2	15362	Clark, 72
Ar^*	+	CO_2	14903	Jones, 70
Ar^*	+	CS_2	10192	Foreman, 77
Ar^*	+	H_2O	14391	Leonhardt, 77
Ar^*	+	C_2H_2	11020	Holcombe, 72
			14903	Jones, 70
Ar^*	+	CH_3	14903	Jones, 70
Ar^*	+	CH_3Cl	14903	Jones, 70
Ar^*	+	$C_2H_2Cl_2$	13967	Martin, 79

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$Ar^{\bullet}$	+	C_2H_4	14903	Jones, 70
$Ar^{\bullet}$	+	C_3H_6	14903	Jones, 70
$Ar^{\bullet}$	+	C_3H_8	14391	Leonhardt, 77
$Ar^{\bullet}$	+	$C_6H_4Cl_2$	13967	Martin, 79
Ba	+	OH	6571	Cohen, 75
Ca	+	OH	6571	Cohen, 75
Ce	+	O_2	8660	Young, 76
$Cs^{\bullet}$	+	Cs	7294	Dobrolizh, 75
			9452	Korchevoi, 76
			9453	Korchevoi, 76
			15106	Klyucharev, 71
$Cs^{\bullet}$	+	$Cs^{\bullet}$	10865	Klyucharev, 77
Cs^{+1}	+	Cs	14745	Korchevoi, 78
D^{+1}	+	D^-	14722	Poulaert, 79
$F^{\bullet}$	+	Xe	13644	Huestis, 78
Gd	+	O	15108	Lo, 74
H^{+1}	+	H^-	14005	Poulaert, 78
He	+	Ar	10402	Arrathoon, 74
He	+	CO	10920	Young, 73
$He^{\bullet}$	+	Ar	6368	Lindinger, 74
			6605	Illenberger, 75
			6653	Pesnelle, 75
			6681	Kubota, 75
			6761	Kubota, 75
			6780	West, 75
			7959	Pesnelle, 75
			9383	Brutschy, 76
			10296	Chen, 74
			10410	Leu, 74
			12547	Coleman, 73
			12943	Woodard, 78
			13204	Dunning, 70
			13444	Micha, 75
			13520	Bolden, 70
			14732	Hitachi, 79
			14755	Tuffin, 79
			15178	Sinda, 70
			15300	De Corpo, 70
			15441	Kramer, 72
			15448	Riola, 74
$He^{\bullet}$	+	Ba	8635	Gerard, 76
$He^{\bullet}$	+	Ca	11915	Butterfield, 78
$He^{\bullet}$	+	Cd	12032	Schearer, 70
			13388	Riseberg, 73
			14259	Kartazaev, 78
			15021	Bochkova, 79
			15085	Cermak, 71
			15182	Riseberg, 71
$He^{\bullet}$	+	Ce	8635	Gerard, 76
$He^{\bullet}$	+	Cs	11404	Johnson, 78
			13378	Bergman, 73

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$He^{\bullet}$	+	D	6733	Neynaber, 75
			7961	Fort, 75
			8017	Fort, 76
			13484	Neynaber, 78
			13515	Borodin, 78
			15434	Magnuson, 74
$He^{\bullet}$	+	H	8477	Fort, 76
			10669	Fort, 77
			12461	Shaw, 71
			12486	Hotop, 71
			13218	Howard, 73
			13293	Aleksandrov, 74
			14491	Morgner, 79
			14541	Fort, 78
			15434	Magnuson, 74
$He^{\bullet}$	+	He	8996	Shaw, 76
			13058	Kolokolov, 78
			14732	Hitachi, 79
			15267	Robben, 72
			15438	Wellenstein, 72
$He^{\bullet}$	+	$He^{\bullet}$	10573	Garrison, 73
			11336	LoDato, 71
			12152	Neynaber, 78
			13058	Kolokolov, 78
			13718	Miller, 71
			15179	Schearer, 70
$He^{\bullet}$	+	Hg	6605	Illenberger, 75
			11085	Kartazaev, 77
			15021	Bochkova, 79
$He^{\bullet}$	+	K	11404	Johnson, 78
			15220	Hotop, 70
$He^{\bullet}$	+	Kr	6605	Illenberger, 75
			6681	Kubota, 75
			6761	Kubota, 75
			6780	West, 75
			12943	Woodard, 78
			13204	Dunning, 70
			13520	Bolden, 70
			14732	Hitachi, 79
			15178	Sinda, 70
			15441	Kramer, 72
			15448	Riola, 74
$He^{\bullet}$	+	N	8042	Neynaber, 76
$He^{\bullet}$	+	Na	11404	Johnson, 78
			15220	Hotop, 70
$He^{\bullet}$	+	Ne	6368	Lindinger, 74
			6681	Kubota, 75
			6761	Kubota, 75
			10296	Chen, 74
			14732	Hitachi, 79
$He^{\bullet}$	+	$Ne^{\bullet}$	7102	Neynaber, 75
			10145	Neynaber, 77
$He^{\bullet}$	+	O	8042	Neynaber, 76
			14931	Cook, 74

He^*	+	Rb	11404	Johnson, 78
He^*	+	Sr	11915	Butterfield, 78
He^*	+	Xe	6368	Lindinger, 74
			6605	Illenberger, 75
			6681	Kubota, 75
			6761	Kubota, 75
			6780	West, 75
			12547	Coleman, 73
			12568	Lantschner, 73
			12943	Woodard, 78
			13204	Dunning, 70
			13520	Bolden, 70
			14732	Hitachi, 79
			15407	Bochkova, 73
			15448	Riola, 74
He^*	+	Xe^*	13269	Bochkova, 72
			15407	Bochkova, 73
He^*	+	Y	8635	Gerard, 76
He^*	+	Zn	13388	Riseberg, 73
			15021	Bochkova, 79
			15182	Riseberg, 71
He^*	+	CO	4538	Hotop, 70
			5867	Hurt, 72
			6326	Leu, 74
			6780	West, 75
			7257	Yee, 75
			10925	Richardson, 73
			13204	Dunning, 70
			13519	Bolden, 70
			13520	Bolden, 70
			14723	Parr, 79
			15448	Riola, 74
He^*	+	Cl_2	10925	Richardson, 73
He^*	+	D_2	6897	Specht, 75
He^*	+	HBr	9997	Brion, 77
			10482	Haugh, 73
			10925	Richardson, 73
			10979	Bush, 73
			12502	Richardson, 71
He^*	+	HCl	9997	Brion, 77
			10042	Hotop, 77
			10925	Richardson, 73
			10979	Bush, 73
			12502	Richardson, 71
			14723	Parr, 79
He^*	+	HD	6897	Specht, 75
He^*	+	HF	9997	Brion, 77
			10671	Brion, 77
He^*	+	H_2	4538	Hotop, 70
			6326	Leu, 74
			6368	Lindinger, 74
			6780	West, 75
			6897	Specht, 75
			7257	Yee, 75

He^*	+	H_2	9998	Mentall, 77
			10673	Fort, 77
			11912	Zhitnikov, 77
			13204	Dunning, 70
			13218	Howard, 73
			13520	Bolden, 70
			14247	Fort, 78
			14802	Tuffin, 79
			15178	Sinda, 70
			15431	Neynaber, 72
He^*	+	HI	9997	Brion, 77
			10671	Brion, 77
He^*	+	N_2	4538	Hotop, 70
			6326	Leu, 74
			6368	Lindinger, 74
			6605	Illenberger, 75
			6780	West, 75
			7257	Yee, 75
			8229	Ueno, 76
			10042	Hotop, 77
			10674	Penkin, 77
			10925	Richardson, 73
			12099	Kassal, 71
			13204	Dunning, 70
			13274	Bochkova, 72
			13520	Bolden, 70
			13724	Mark, 71
			14724	Yokoyama, 79
			15448	Riola, 74
He^*	+	NO	4809	Brion, 72
			6625	Coxon, 75
			6780	West, 75
			7257	Yee, 75
			13204	Dunning, 70
			13519	Bolden, 70
			13520	Bolden, 70
			15448	Riola, 74
He^*	+	O_2	6326	Leu, 74
			6368	Lindinger, 74
			6405	West, 74
			6780	West, 75
			7257	Yee, 75
			10042	Hotop, 77
			10925	Richardson, 73
			12502	Richardson, 71
			13204	Dunning, 70
			13520	Bolden, 70
			15448	Riola, 74
He^*	+	CO_2	6368	Lindinger, 74
			6780	West, 75
			13520	Bolden, 70
			14969	Wauchop, 72
			15448	Riola, 74
He^*	+	D_2O	9587	Sanders, 77
			10043	Cermak, 77
He^*	+	H_2O	9587	Sanders, 77

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He^*	+	H_2O	10043	Cermak, 77
$He^{\cdot}$	+	H_2S	10043	Cermak, 77
$He^{\cdot}$	+	N_2O	6780	West, 75
			15448	Riola, 74
$He^{\cdot}$	+	SO_2	10043	Cermak, 77
			6368	Lindinger, 74
			13520	Bolden, 70
$He^{\cdot}$	+	CH_4	13519	Bolden, 70
			13520	Bolden, 70
			15448	Riola, 74
$He^{\cdot}$	+	$C_2H_2Cl_2$	13967	Martin, 79
$He^{\cdot}$	+	$C_6H_4Cl_2$	13967	Martin, 79
$Hg^{\cdot}$	+	Cs	5462	Brodskii, 70
			14894	Brodskii, 70
K	+	Br_2	9591	Dispert, 77
K	+	Cl_2	9591	Dispert, 77
K	+	IBr	15105	Auerbach, 73
K	+	ICl	15105	Auerbach, 73
$K^{\cdot}$	+	K	7252	Kupriyanov, 75
			9286	Klyucharev, 77
$K^{\cdot}$	+	$K^{\cdot}$	9937	Klyucharev, 77
			10865	Klyucharev, 77
			15416	Paslen, 74
$Kr^{\cdot}$	+	Cd	13388	Riseberg, 73
			15182	Riseberg, 71
$Kr^{\cdot}$	+	Zn	13388	Riseberg, 73
			15182	Riseberg, 71
$Kr^{\cdot}$	+	NO	6780	West, 75
$Kr^{\cdot}$	+	C_2H_2	14903	Jones, 70
$Kr^{\cdot}$	+	C_2H_4	14903	Jones, 70
$Kr^{\cdot}$	+	C_3H_4	14903	Jones, 70
$Kr^{\cdot}$	+	C_3H_6	14903	Jones, 70
Li	+	IBr	15105	Auerbach, 73
Li	+	ICl	15105	Auerbach, 73
N	+	O	10863	Gentry, 77
$N^{\cdot}$	+	O	14741	Ringer, 79
Na	+	IBr	15105	Auerbach, 73
Na	+	ICl	15105	Auerbach, 73
$Na^{\cdot}$	+	$Na^{\cdot}$	9937	Klyucharev, 77
			10865	Klyucharev, 77
			15032	De Jong, 79
Ne	+	Ar	15236	Pfau, 70
Ne	+	H	15236	Pfau, 70
Ne	+	Hg	15236	Pfau, 70
Ne	+	Kr	15236	Pfau, 70
Ne	+	N	15236	Pfau, 70
Ne	+	Xe	15236	Pfau, 70

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$Ne^{\cdot}$	+	Ar	6565	Neynaber, 75
			6780	West, 75
			11012	Tang, 72
			14391	Leonhardt, 77
			15178	Sinda, 70
			15441	Kramer, 72
$Ne^{\cdot}$	+	Cd	13388	Riseberg, 73
			15085	Cermak, 71
			15182	Riseberg, 71
$Ne^{\cdot}$	+	Hg	6605	Illenberger, 75
$Ne^{\cdot}$	+	Kr	6605	Illenberger, 75
			6780	West, 75
			8489	Neynaber, 76
			10670	Hotop, 77
			11012	Tang, 72
			15178	Sinda, 70
			15441	Kramer, 72
$Ne^{\cdot}$	+	Xe	6780	West, 75
			11012	Tang, 72
			12547	Coleman, 73
			13644	Huestis, 78
			14268	Neynaber, 79
$Ne^{\cdot}$	+	Zn	13388	Riseberg, 73
			14352	Kartazaev, 78
			15182	Riseberg, 71
$Ne^{\cdot}$	+	CO	4538	Hotop, 70
			6780	West, 75
$Ne^{\cdot}$	+	H_2	4538	Hotop, 70
			6780	West, 75
			14391	Leonhardt, 77
			15178	Sinda, 70
$Ne^{\cdot}$	+	N_2	4538	Hotop, 70
			6780	West, 75
			12099	Kassal, 71
$Ne^{\cdot}$	+	NO	6780	West, 75
$Ne^{\cdot}$	+	O_2	6780	West, 75
			10670	Hotop, 77
			13519	Bolden, 70
$Ne^{\cdot}$	+	CO_2	6780	West, 75
$Ne^{\cdot}$	+	D_2O	9587	Sanders, 77
$Ne^{\cdot}$	+	H_2O	9587	Sanders, 77
$Ne^{\cdot}$	+	H_2S	10043	Cermak, 77
$Ne^{\cdot}$	+	N_2O	6730	West, 75
$Ne^{\cdot}$	+	$C_2H_2Cl_2$	13967	Martin, 79
$Ne^{\cdot}$	+	$C_6H_4Cl_2$	13967	Martin, 79
$Rb^{\cdot}$	+	$Rb^{\cdot}$	8244	Borodin, 75
			8636	Klyucharev, 76
			10865	Klyucharev, 77
Sr	+	OH	6571	Cohen, 75
Th	+	O	15108	Lo, 74
Th	+	O_2	15108	Lo, 74

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Th	+	O_3	12920	Patterson, 78
Ti	+	O	15108	Lo, 74
U	+	O	15435	Fite, 74
U	+	O_2	7657	Young, 76
			15435	Fite, 74
Xe^*	+	He^*	13266	Bochkova, 72
Xe^*	+	Xe	6390	Klots, 74
Zr	+	O	15108	Lo, 74
N_2	+	K	6627	Schmidt, 74
N_2	+	Na	6627	Schmidt, 74
N_2^*	+	C_2H_2	14903	Jones, 70
N_2^*	+	CH_3Cl	14903	Jones, 70
N_2^*	+	C_2D_4	14903	Jones, 70
N_2^*	+	C_3H_4	14903	Jones, 70
N_2^*	+	C_3H_6	14903	Jones, 70
SO_2	+	Ar	9516	Wu, 77
SO_2	+	He	9516	Wu, 77

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Ar^*	+	Kr^*	14721	Neynaber, 79
Cs^*	+	Cs	15433	Ono, 70
Eu^{+1}	+	Ar	15443	Coburn, 76
He	+	CH_3OH	12869	Sharp, 78
He^*	+	Ar	6295	Ebding, 74
			6863	Keliher, 75
			7958	Kalinin, 75
			7962	Niehaus, 75
			15173	Schearer, 70
			15176	Dunning, 70
He^*	+	Ca	14488	Hultzsch, 79
He^*	+	Cd	6691	Bogdanova, 75
			15411	Hamel, 74
He^*	+	D	14541	Fort, 78
He^*	+	He	7915	Payne, 75
He^*	+	He^*	7283	Shuker, 75
He^*	+	Hg	6295	Ebding, 74
			7962	Niehaus, 75
He^*	+	Kr	6295	Ebding, 74
He^*	+	N	7960	Magnuson, 75
He^*	+	O	7960	Magnuson, 75
He^*	+	Sr	15016	Fahey, 79
He^*	+	Xe	6295	Ebding, 74
			7283	Shuker, 75
He^*	+	CO	6295	Ebding, 74
			6863	Keliher, 75
He^*	+	HBr	8657	Cermak, 76
He^*	+	HCl	7067	Hotop, 75
			8657	Cermak, 76

REFERENCE

He^*	+	H_2	6863	Keliher, 75
He^*	+	N_2	6295	Ebding, 74
			6863	Keliher, 75
			15181	Schearer, 71
He^*	+	BrCN	8656	Yee, 76
He^*	+	CO_2	6863	Keliher, 75
			14717	Tsuji, 79
He^*	+	CS_2	14716	Yencha, 79
He^*	+	ClCN	8760	Cermak, 76
He^*	+	HCN	8656	Yee, 76
He^*	+	H_2O	8655	Yee, 76
He^*	+	ICN	8656	Yee, 76
He^*	+	N_2O	6863	Keliher, 75
He^*	+	SO_2	13053	Tsuji, 78
He^*	+	C_2N_2	8656	Yee, 76
			8760	Cermak, 76
He^*	+	H_2CO	8632	Yee, 76
He^*	+	HCO_2H	8632	Yee, 76
He^*	+	C_2H_4	7261	Yee, 75
He^*	+	CH_3CN	8656	Yee, 76
			8760	Cermak, 76
He^*	+	CH_3OH	8655	Yee, 76
He^*	+	CH_3CHO	8632	Yee, 76
He^*	+	CH_3CO_2H	8632	Yee, 76
He^*	+	CH_3COCH_3	8632	Yee, 76
He^*	+	C_3H_8	14917	Lehrle, 74
He^{+1}	+	Ba	13169	Arrathoon, 73
He^{+1}	+	Ca	10815	Hultzsch, 77
			13169	Arrathoon, 73
He^{+1}	+	Cd	14924	Collins, 73
He^{+1}	+	Ce	13169	Arrathoon, 73
He^{+1}	+	La	13231	Littlewood, 74
He^{+1}	+	Mg	13169	Arrathoon, 73
He^{+1}	+	Pb	13169	Arrathoon, 73
He^{+1}	+	Sn	13169	Arrathoon, 73
He^{+1}	+	Sr	13169	Arrathoon, 73
He^{+1}	+	Y	13169	Arrathoon, 73
			13231	Littlewood, 74
He^{+1}	+	Yb	13169	Arrathoon, 73
He^{+1}	+	Zn	14924	Collins, 73
He^{+2}	+	Hg	12255	Niehaus, 78
Hg^*	+	Hg	15199	Sibata, 79
K^*	+	CO	10235	Kupriyanov, 77
K^*	+	D_2	10235	Kupriyanov, 77
K^*	+	N_2	10235	Kupriyanov, 77

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K^*	+	NO	10235	Kupriyanov, 77
K^*	+	O_2	10235	Kupriyanov, 77
K^*	+	CO_2	10235	Kupriyanov, 77
K^*	+	H_2O	10235	Kupriyanov, 77
K^*	+	H_2S	10235	Kupriyanov, 77
K^*	+	N_2O	10235	Kupriyanov, 77
K^*	+	C_2D_2	10235	Kupriyanov, 77
K^*	+	NH_3	10235	Kupriyanov, 77
K^*	+	C_2D_4	10235	Kupriyanov, 77
Na^*	+	Na^*	13140	Bearman, 78
Ne^*	+	H	14738	Morgner, 79
Ne^*	+	H_2	15432	Rebick, 71
Ne^*	+	CS_2	14716	Yencha, 79
Ne^*	+	ClCN	8760	Cermak, 76
Ne^*	+	DCN	8629	Cermak, 76
Ne^*	+	HCN	8629	Cermak, 76
Ne^*	+	C_2N_2	8760	Cermak, 76
Ne^*	+	C_2H_4	14766	Munakata, 79
Ne^*	+	CH_3CN	8760	Cermak, 76
Ne^*	+	C_2H_6	14766	Munakata, 79
Ne^*	+	C_6H_5CN	8760	Cermak, 76
Sr^*	+	Sr	13448	Worden, 78
Th	+	O_2	15439	Zavitsanos, 73
U	+	O	15442	Fite, 72
U	+	O_2	11779	Vasu, 78
			15439	Zavitsanos, 73
			15442	Fite, 72
U	+	O_3	12920	Patterson, 78
He_2^*	+	Xe	7283	Shuker, 75
K_2	+	Br_2	15370	Lin, 74
– –			4910	Dutton, 71
			14889	Shaw, 74
			15009	Gentry, 79
			15159	Muschlitz Jr., 73

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He^*	+	Ar	14328	Manus, 77
He^*	+	H	14328	Manus, 77
He^*	+	H_2	14328	Manus, 77
– –			7999	Manus, 76
			15154	Niehaus, 73
			15247	Berry, 74
			15248	Hotop, 74

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Ca^*	+	Ca	14049	Liu, 78

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H^*	+	H	15265	Koike, 72
			15268	Nielsen, 71
H^{+1}	+	Ne	5608	Saxon, 73
He^*	+	Ar	6653	Pesnelle, 75
			6911	Kvlividze, 74
			7695	Nakamura, 75
			8050	Nakamura, 76
			8457	Hickman, 76
			10698	Kohmoto, 77
			13011	Bellum, 78
			13757	Olson, 72
			15072	Hoffmann, 79
He^*	+	D	10196	Hickman, 77
He^*	+	H	10146	Huo, 77
			10196	Hickman, 77
			11941	Miller, 70
			12194	Bieniek, 78
			12488	Cohen, 71
			13219	Cohen, 73
			13226	Bieniek, 74
			13537	Bell, 70
			14491	Morgner, 79
			14494	Isaacson, 79
			14936	Fujii, 70
			15266	Nakamura, 71
He^*	+	He	6911	Kvlividze, 74
			8009	Cohen, 76
			11025	Miller, 72
He^*	+	He^*	12048	Matsuzawa, 70
			13369	Johnson, 73
He^*	+	Kr	6911	Kvlividze, 74
He^*	+	Ne	6911	Kvlividze, 74
He^*	+	Xe	6911	Kvlividze, 74
He^*	+	H_2	8305	Preston, 76
			9234	Hickman, 77
			10672	Cohen, 77
He^{+1}	+	Ar	9204	Zhdanov, 76
He^{+1}	+	H	6936	Kvlividze, 74
He^{+1}	+	He	9204	Zhdanov, 76
He^{+1}	+	Kr	9204	Zhdanov, 76
He^{+1}	+	Mg	13623	Kulander, 75
He^{+1}	+	Xe	9204	Zhdanov, 76
N^*	+	O	14740	Nielsen, 79
Ne^*	+	Ar	12471	Micha, 71
			12507	Olson, 72
Ne^*	+	Kr	12471	Micha, 71
Ne^*	+	Xe	12471	Micha, 71
Ne^*	+	H_2	5608	Saxon, 73
CH	+	O	15447	MacGregor, 73

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He^*	+	Ar	14720	Hoffmann, 79

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He^*	+	H	14236	Isaacson, 79
He^*	+	He	14647	Obedkov, 78
			15269	Cohen, 76
He^*	+	H_2	9085	Cohen, 77
He^{+2}	+	Hg	10819	Niehaus, 77
N	+	O	10864	Dahler, 77
U	+	O_2	7657	Young, 76
– –			8040	Dalidchik, 76
			9049	Goble, 77
			10382	Miller, 77
			11119	Morgner, 78
			12053	Miller, 70
			14788	Andreev, 78
			14889	Shaw, 74
			15190	Drukarev, 72
			15280	Leonas, 77
			15329	Smirnov, 71

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– –			9538	Morgenstern, 76
			14885	Gilbody, 70
			15158	Wexler, 73
			15240	Gilbody, 71

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Ar	+	Ar	7020	Eriksen, 75
			10221	Hegerberg, 78
			11356	Hammond, 71
			12064	Haugsjaa, 70
			13357	Berry, 72
			13586	Gerber, 73
			15389	Leonas, 70
Ar	+	H	7788	Thomas, 75
			9280	Van Zyl, 77
			14763	Aberle, 79
Ar	+	H^*	13567	Dose, 72
Ar	+	He	7627	Brenot, 75
Ar^{+1}	+	Ar	13357	Berry, 72
			13586	Gerber, 73
C^*	+	Xe	10654	Hiraishi, 77
C^*	+	H_2O	10654	Hiraishi, 77
C^*	+	C_2H_2	10654	Hiraishi, 77
C^*	+	SF_6	10654	Hiraishi, 77
C^*	+	C_6H_6	10654	Hiraishi, 77
C^{+1}	+	He	14238	Latypov, 78
C^{+1}	+	Ne	14238	Latypov, 78
Cs	+	Ar	15260	Kelly, 72
Cs	+	CO	15260	Kelly, 72
Cs	+	H_2	15260	Kelly, 72

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Cs	+	N_2	15260	Kelly, 72
Cs	+	CO_2	15260	Kelly, 72
Cs	+	H_2O	15260	Kelly, 72
Cs	+	CD_3NO_2	11752	Compton, 78
Cs	+	CH_3NO_2	11752	Compton, 78
Cs	+	SF_6	10308	Leffert, 74
D	+	N_2	15099	Birely, 74
D^{+1}	+	N_2	15099	Birely, 74
H	+	Ar	9280	Van Zyl, 77
			9865	Roussel, 77
			11759	Aberle, 78
			13754	Spiess, 72
			14763	Aberle, 79
H	+	H	15069	Hill, 79
H	+	H^*	15069	Hill, 79
H	+	He	9865	Roussel, 77
			13754	Spiess, 72
H	+	Kr	9865	Roussel, 77
			11759	Aberle, 78
			13754	Spiess, 72
			14763	Aberle, 79
H	+	Ne	9865	Roussel, 77
			11759	Aberle, 78
			13754	Spiess, 72
H	+	Xe	9865	Roussel, 77
			11759	Aberle, 78
			13754	Spiess, 72
H	+	CO	11969	McNeal, 70
			15349	Afrosimov, 74
H	+	H_2	9865	Roussel, 77
			13754	Spiess, 72
			15342	Afrosimov, 72
H	+	HI	13754	Spiess, 72
H	+	N_2	10363	Bearman, 78
			13344	Van Zyl, 78
			13754	Spiess, 72
			15099	Birely, 74
H	+	O_2	10363	Bearman, 78
			11759	Aberle, 78
			13344	Van Zyl, 78
			13439	Birely, 75
H	+	CO_2	11969	McNeal, 70
			14934	Moore Jr., 75
H	+	N_2O	14934	Moore Jr., 75
H	+	NH_3	11969	McNeal, 70
H	+	CH_4	11969	McNeal, 70
H^*	+	Ar	9865	Roussel, 77
H^*	+	He	9865	Roussel, 77
H^*	+	Kr	9865	Roussel, 77
H^*	+	Ne	9865	Roussel, 77

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$H^{\bullet}$	+	Xe	9865	Roussel, 77
			10654	Hiraishi, 77
$H^{\bullet}$	+	H_2	9865	Roussel, 77
$H^{\bullet}$	+	H_2O	10654	Hiraishi, 77
$H^{\bullet}$	+	C_2H_2	10654	Hiraishi, 77
$H^{\bullet}$	+	SF_6	10654	Hiraishi, 77
$H^{\bullet}$	+	C_6H_6	10654	Hiraishi, 77
H^{+1}	+	He	13674	Keever, 70
			15400	Latypov, 73
H^{+1}	+	He^{+1}	9779	Peart, 77
H^{+1}	+	Mg^{+1}	9778	Peart, 77
H^{+1}	+	Ne	15400	Latypov, 73
H^{+1}	+	CO	11969	McNeal, 70
			15349	Afrosimov, 74
H^{+1}	+	H_2	15020	Rudd, 79
H^{+1}	+	N_2	4428	Sheridan, 71
			15020	Rudd, 79
			15099	Birely, 74
H^{+1}	+	O_2	13439	Birely, 75
H^{+1}	+	CO_2	11969	McNeal, 70
			14934	Moore Jr., 75
H^{+1}	+	N_2O	14934	Moore Jr., 75
H^{+1}	+	NH_3	11969	McNeal, 70
H^{+1}	+	CH_4	11969	McNeal, 70
H^{+1}	+	CH_3OH	9813	Mach, 77
He	+	Ar	13574	Gerber, 72
He	+	H	7478	Smith, 75
			13426	Sauers, 74
He	+	He	7679	Brenot, 75
			11356	Hammond, 71
			13370	Savola Jr., 73
			13586	Gerber, 73
			13592	Barat, 73
			15389	Leonas, 70
			15405	Kalra, 71
He	+	He^{+1}	13600	Gerber, 73
He	+	Kr	13574	Gerber, 72
He	+	Ne	13574	Gerber, 72
He	+	O	5628	Edwards, 73
He	+	Xe	13574	Gerber, 72
He	+	CO	10363	Bearman, 78
			13531	Browning, 70
He	+	H_2	5614	Veatch, 73
			13531	Browning, 70
He	+	N_2	8838	Sanders, 76
			10363	Bearman, 78
			13531	Browning, 70
He	+	O_2	10363	Bearman, 78
			13531	Browning, 70

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He	+	CO_2	13531	Browning, 70
He	+	CH_4	13531	Browning, 70
$He^{\bullet}$	+	He	10104	Morgenstern, 77
			13230	Gillen, 74
$He^{\bullet}$	+	Xe	10654	Hiraishi, 77
$He^{\bullet}$	+	H_2	10312	Neynaber, 74
$He^{\bullet}$	+	H_2O	10654	Hiraishi, 77
$He^{\bullet}$	+	C_2H_2	10654	Hiraishi, 77
$He^{\bullet}$	+	SF_6	10654	Hiraishi, 77
$He^{\bullet}$	+	C_6H_6	10654	Hiraishi, 77
He^{+1}	+	Ar	13574	Gerber, 72
			15135	Sataka, 79
He^{+1}	+	Ba	11809	Zhukov, 77
He^{+1}	+	Ca	11809	Zhukov, 77
He^{+1}	+	He	7941	Benoit-Cattin, 75
			11112	Kessel, 78
			13572	Barat, 72
			13586	Gerber, 73
			13600	Gerber, 73
He^{+1}	+	Kr	13574	Gerber, 72
			13737	Maier II, 72
He^{+1}	+	Mg	11809	Zhukov, 77
He^{+1}	+	Ne	13228	Gerber, 73
			13574	Gerber, 72
			13600	Gerber, 73
He^{+1}	+	Sr	11809	Zhukov, 77
He^{+1}	+	Xe	13574	Gerber, 72
			13737	Maier II, 72
He^{+2}	+	He	7628	Afrosimov, 75
K	+	Ar	15260	Kelly, 72
K	+	Br_2	12143	Rothe, 71
K	+	CO	15260	Kelly, 72
K	+	H_2	15260	Kelly, 72
K	+	N_2	15260	Kelly, 72
K	+	CO_2	15260	Kelly, 72
K	+	H_2O	15260	Kelly, 72
K	+	CH_3NO_2	11752	Compton, 78
K^{+1}	+	Ar	7950	Menendez, 75
			13260	Pop, 71
			15390	Afrosimov, 70
K^{+1}	+	Ne	15390	Afrosimov, 70
K^{+1}	+	Xe	15390	Afrosimov, 70
Kr	+	H	14763	Aberle, 79
Kr	+	He	7627	Brenot, 75
Kr	+	Kr	13586	Gerber, 73
Kr^{+1}	+	Kr	13586	Gerber, 73
Li	+	Ar	15260	Kelly, 72

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Li	+	CO	15260	Kelly, 72
Li	+	H_2	15260	Kelly, 72
Li	+	N_2	15260	Kelly, 72
Li	+	CO_2	15260	Kelly, 72
Li	+	H_2O	15260	Kelly, 72
Li^{+1}	+	He	11110	Yagishita, 78
			14238	Latypov, 78
			14698	Yagishita, 79
			15222	Andersen, 73
			15400	Latypov, 73
Li^{+1}	+	Ne	10048	Latypov, 76
			14238	Latypov, 78
			15400	Latypov, 73
Mg^{+1}	+	He	14238	Latypov, 78
Mg^{+1}	+	Ne	14238	Latypov, 78
			14239	Latypov, 78
N^{+1}	+	He	14238	Latypov, 78
N^{+1}	+	Ne	14238	Latypov, 78
Na	+	Ar	15260	Kelly, 72
Na	+	CO	15260	Kelly, 72
Na	+	H_2	15260	Kelly, 72
Na	+	N_2	15260	Kelly, 72
Na	+	CO_2	15260	Kelly, 72
Na	+	H_2O	15260	Kelly, 72
Na	+	$CBrF_3$	11752	Compton, 78
Na	+	CF_3I	11752	Compton, 78
Na^{+1}	+	He	14238	Latypov, 78
Na^{+1}	+	Ne	8854	Latypov, 76
			14238	Latypov, 78
			14239	Latypov, 78
			15357	Belik, 75
			15401	Bydin, 73
Ne	+	H	14763	Aberle, 79
Ne	+	He	7627	Brenot, 75
Ne	+	He^{+1}	13600	Gerber, 73
Ne	+	Ne	7679	Brenot, 75
			13586	Gerber, 73
			14430	Andersen, 78
			15389	Leonas, 70
Ne	+	Ne^{+1}	13600	Gerber, 73
Ne	+	N_2	10102	Millet, 77
Ne^{+1}	+	Ba	11809	Zhukov, 77
Ne^{+1}	+	Ca	11809	Zhukov, 77
Ne^{+1}	+	He	14238	Latypov, 78
Ne^{+1}	+	Kr	13737	Maier II, 72
Ne^{+1}	+	Ne	13586	Gerber, 73
			14238	Latypov, 78
			14430	Andersen, 78
Ne^{+1}	+	Sr	11809	Zhukov, 77

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Ne^{+1}	+	Xe	13737	Maier II, 72
Ne^{+2}	+	Ne	14430	Andersen, 78
Rb	+	Ar	15260	Kelly, 72
Rb	+	CO	15260	Kelly, 72
Rb	+	H_2	15260	Kelly, 72
Rb	+	N_2	15260	Kelly, 72
Rb	+	CO_2	15260	Kelly, 72
Rb	+	H_2O	15260	Kelly, 72
Sc	+	SF_6	5884	Compton, 73
Sc	+	TeF_6	5884	Compton, 73
Tl	+	Ar	15260	Kelly, 72
Tl	+	CO	15260	Kelly, 72
Tl	+	H_2	15260	Kelly, 72
Tl	+	N_2	15260	Kelly, 72
Tl	+	CO_2	15260	Kelly, 72
Tl	+	H_2O	15260	Kelly, 72
Xe	+	H	14763	Aberle, 79
Xe	+	He	7627	Brenot, 75
Xe^*	+	CCl_4	9765	Foltz, 77
Xe^*	+	CCl_3F	9765	Foltz, 77
Xe^*	+	SF_6	9765	Foltz, 77
Br_2	+	K	10165	Aten, 77
			14986	Baede, 71
Br_2	+	Li	14986	Baede, 71
Br_2	+	Na	14986	Baede, 71
CO	+	H	7478	Smith, 75
CO	+	K	12437	Lacmann, 70
			13741	Cuderman, 72
CO	+	Na^{+1}	13608	Graham, 73
CO	+	Ne	13608	Graham, 73
CO	+	Ne^{+1}	13608	Graham, 73
CO	+	CO	11606	Utterback, 78
CO	+	N_2	11606	Utterback, 78
Cl_2	+	K	10165	Aten, 77
			12437	Lacmann, 70
			14986	Baede, 71
Cl_2	+	Li	14986	Baede, 71
Cl_2	+	Li^*	14263	Mariella Jr., 7
Cl_2	+	Na	14986	Baede, 71
D_2	+	D_2	13379	Peterson, 73
F_2	+	Li^*	14263	Mariella Jr.,
HCl	+	K	12437	Lacmann, 70
HCl	+	Kr^*	9794	Matsuzawa, 77
HF	+	Kr^*	9794	Matsuzawa, 77
H_2	+	Cs	14157	Ashton, 73
H_2	+	H	7478	Smith, 75

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H_2	+	H	15069	Hill, 79
H_2	+	H^{*}	13567	Dose, 72
			15069	Hill, 79
H_2	+	He^{+1}	7789	Shah, 75
H_2	+	K	13741	Cuderman, 72
			14157	Ashton, 73
H_2	+	Li	14157	Ashton, 73
H_2	+	Na	14157	Ashton, 73
H_2	+	Na^{+1}	13608	Graham, 73
H_2	+	Ne	13608	Graham, 73
H_2	+	Ne^{+1}	13608	Graham, 73
H_2	+	Rb	14157	Ashton, 73
H_2	+	H_2	9863	Noda, 77
			13192	Morgan, 71
			13379	Peterson, 73
			13740	Morgan, 72
H_2	+	H_2^{*}	13740	Morgan, 72
H_2^{+1}	+	Ar	15135	Sataka, 79
H_2^{+1}	+	H_2	13192	Morgan, 71
H_2^{+1}	+	CH_3OH	9813	Mach, 77
IBr	+	K	10165	Aten, 77
ICl	+	K	10165	Aten, 77
I_2	+	K	10165	Aten, 77
			14986	Baede, 71
I_2	+	Li	14986	Baede, 71
I_2	+	Na	14986	Baede, 71
N_2	+	Cs	14157	Ashton, 73
N_2	+	D^{*}	14734	Koch, 79
			14777	Koch, 79
N_2	+	H	7478	Smith, 75
			13344	Van Zyl, 78
N_2	+	H^{*}	13567	Dose, 72
N_2	+	K	6292	Haug, 74
			12437	Lacmann, 70
			13741	Cuderman, 72
			14157	Ashton, 73
N_2	+	Li	14157	Ashton, 73
N_2	+	Na	6292	Haug, 74
			14157	Ashton, 73
N_2	+	Na^{+1}	13608	Graham, 73
N_2	+	Ne	13608	Graham, 73
N_2	+	Ne^{+1}	13608	Graham, 73
N_2	+	Rb	14157	Ashton, 73
N_2	+	CO	11606	Utterback, 78
N_2	+	H_2	9863	Noda, 77
N_2	+	N_2	12099	Kassal, 71
			15389	Leonas, 70
N_2	+	NO	11606	Utterback, 78

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N_2	+	CO_2	11606	Utterback, 78
N_2	+	CH_4	11606	Utterback, 78
NO	+	K	12437	Lacmann, 70
O_2	+	Cs	14157	Ashton, 73
O_2	+	H	7478	Smith, 75
			13344	Van Zyl, 78
O_2	+	H^{*}	13567	Dose, 72
O_2	+	K	12437	Lacmann, 70
			13741	Cuderman, 72
			14157	Ashton, 73
O_2	+	Li	14157	Ashton, 73
O_2	+	Na	14157	Ashton, 73
O_2	+	Na^{*}	9892	Rothe, 77
O_2	+	Na^{+1}	13608	Graham, 73
O_2	+	Ne	13608	Graham, 73
O_2	+	Ne^{+1}	13608	Graham, 73
O_2	+	Rb	14157	Ashton, 73
CO_2	+	H	7478	Smith, 75
D_2O	+	Cs	11244	Warmack, 78
D_2O	+	K	11244	Warmack, 78
H_3^{+1}	+	CH_3OH	9813	Mach, 77
H_2O	+	Ar^{*}	14733	Hiraishi, 79
H_2O	+	H	15379	Baribaud, 71
H_2O	+	D_2^{*}	14511	Hiraishi, 79
H_2O	+	H_2^{*}	14511	Hiraishi, 79
			14733	Hiraishi, 79
NO_2	+	Li^{*}	14263	Mariella Jr., 79
SO_2	+	Na^{*}	9892	Rothe, 77
NH_3	+	Xe^{*}	11505	Smith, 78
			14730	Kellert, 79
CH_3Br	+	Xe^{*}	11113	Hildebrandt, 78
CH_4	+	H	7478	Smith, 75
CH_3I	+	Xe^{*}	11113	Hildebrandt, 78
C_6F_6	+	Xe^{*}	11113	Hildebrandt, 78

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Cs	+	He	15318	Ogurtsov, 70
Cs	+	Ne	15318	Ogurtsov, 70
H	+	N_2	10668	Bearman, 77
H^{+1}	+	N_2	14968	Desesquelles, 75
He^{*}	+	N_2	15177	Hollstein, 70
He^{+1}	+	Ba	10815	Hultzsch, 77
He^{+1}	+	He	10813	Thielmann, 77
			14543	Morgenstern, 79
			15017	Kessel, 79
			15216	Morgenstern, 79
He^{+1}	+	Mg	15395	Latush, 72

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He^{+1}	+	Ne	9118	Olsen, 77
			14543	Morgenstern, 79
He^{+1}	+	NH_3	10282	Lindinger, 75
He^{+2}	+	He	15319	Latypov, 70
He^{+2}	+	Kr	14719	Johnsen, 79
He^{+2}	+	Xe	14719	Johnsen, 79
K	+	He	15318	Ogurtsov, 70
K	+	Ne	15318	Ogurtsov, 70
K^{+1}	+	Ar	15337	Afrosimov, 72
K^{+1}	+	N_2	14968	Desesquelles, 75
Kr^{+1}	+	Kr	14701	Afrosimov, 79
Li^*	+	Li	14602	Koch, 79
Li^{+1}	+	He	10814	Oomoto, 77
			15427	Latypov, 73
Li^{+1}	+	Ne	9118	Olsen, 77
			14699	Yagishita, 79
			15427	Latypov, 73
Li^{+1}	+	N_2	14968	Desesquelles, 75
Mg^{+1}	+	Ne	9118	Olsen, 77
Na	+	He	15318	Ogurtsov, 70
Na	+	Ne	15318	Ogurtsov, 70
Na^{+1}	+	Ne	9118	Olsen, 77
Na^{+1}	+	N_2	14968	Desesquelles, 75
Ne^{+1}	+	He	9118	Olsen, 77
Ne^{+1}	+	Ne	14543	Morgenstern, 79
Ne^{+1}	+	N_2	14968	Desesquelles, 75
Rb	+	He	15318	Ogurtsov, 70
Rb	+	Ne	15318	Ogurtsov, 70
CO_2	+	Cs	7104	Compton, 75
SF_6	+	H_2^*	14511	Hiraishi, 79
Ions			14319	Dolder, 77
– –			14329	Stebbings, 77

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ORIGINAL DATA

Ar	+	Ar	10047	Komarov, 76
			12042	Merilo, 70
			15191	Drawin, 73
Ar	+	H	9281	Neumann, 77
			13398	Flannery, 73
			14926	Green, 71
Ar^{+1}	+	Ar	14975	Russek, 70
C^{+6}	+	H	9884	Salop, 77
D^{+1}	+	Ar	14935	Tripathi, 70
D^{+1}	+	He	14935	Tripathi, 70
D^{+1}	+	Kr	14935	Tripathi, 70
D^{+1}	+	Ne	14935	Tripathi, 70

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D^{+1}	+	Xe	14935	Tripathi, 70
H	+	Ar	14926	Green, 71
H	+	H	13205	Flannery, 70
			13959	Olson, 79
			15235	Flannery, 73
H	+	H^*	13563	Flannery, 72
			13683	Omidvar, 70
			14781	Shirai, 79
H	+	He	14926	Green, 71
			15235	Flannery, 73
H	+	Kr	14926	Green, 71
H	+	Ne	14926	Green, 71
H	+	Xe	14926	Green, 71
H^-	+	Cs	8007	Olson, 76
H^*	+	H^*	11471	Shirai, 78
			14252	Shirai, 79
			14780	Flannery, 79
H^{+1}	+	Ar	11171	Roy, 72
			13203	Kingston, 70
			14926	Green, 71
			14935	Tripathi, 70
H^{+1}	+	H	6900	Golden, 75
			13546	Flannery, 70
			14834	Ellis, 73
			15077	Dose, 75
H^{+1}	+	He	11171	Roy, 72
			14926	Green, 71
			14935	Tripathi, 70
H^{+1}	+	Kr	11171	Roy, 72
			13203	Kingston, 70
			14926	Green, 71
			14935	Tripathi, 70
H^{+1}	+	Ne	11171	Roy, 72
			14926	Green, 71
			14935	Tripathi, 70
H^{+1}	+	Xe	11171	Roy, 72
			14935	Tripathi, 70
H^{+1}	+	H_2^{+1}	13365	Tripathi, 73
H^{+1}	+	CH_3OH	9814	Mach, 77
He	+	B	13596	Nikolaev, 73
He	+	Be	13596	Nikolaev, 73
He	+	C	13596	Nikolaev, 73
He	+	H	13398	Flannery, 73
			13596	Nikolaev, 73
			14926	Green, 71
He	+	H^*	13593	Bell, 73
He	+	He	10047	Komarov, 76
He	+	He	15191	Drawin, 73
He	+	Li	13596	Nikolaev, 73
He	+	Ne	10047	Komarov, 76

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He^*	+	Ar	14083	Lam, 78
He^{+1}	+	Ar	14935	Tripathi, 70
He^{+1}	+	He	9180	Bell, 77
			13521	Bell, 70
			13591	Sidis, 73
			14935	Tripathi, 70
He^{+1}	+	Kr	14935	Tripathi, 70
He^{+1}	+	Mg	7681	Kulander, 75
He^{+1}	+	Ne	14935	Tripathi, 70
He^{+1}	+	Xe	14935	Tripathi, 70
He^{+2}	+	H	9886	Olson, 77
			13606	Msezane, 73
He^{+2}	+	Li	13972	Shipsey, 78
K^{+1}	+	Ar	10806	Bydin, 77
Kr	+	H	13398	Flannery, 73
			14926	Green, 71
Kr	+	Kr	10047	Komarov, 76
			12042	Merilo, 70
			15191	Drawin, 73
Kr	+	Xe	10047	Komarov, 76
N^{+1}	+	Ar	13696	Hayden, 71
Ne	+	H	13398	Flannery, 73
			14926	Green, 71
Ne	+	Ne	10047	Komarov, 76
			12042	Merilo, 70
			15191	Drawin, 73
Ne	+	Xe	10047	Komarov, 76
O^{+1}	+	Kr	13696	Hayden, 71
Xe	+	H	13398	Flannery, 73
			14926	Green, 71
Xe	+	Xe	10047	Komarov, 76
			12042	Merilo, 70
			15191	Drawin, 73
HF	+	H^*	9794	Matsuzawa, 77
H_2	+	H	13578	Mathur, 72
			15186	Mathur, 71
H_2^{+1}	+	CH_3OH	9814	Mach, 77
N_2	+	H	13578	Mathur, 72
			15186	Mathur, 71
O_2	+	H	13578	Mathur, 72
			15186	Mathur, 71
H_3^{+1}	+	CH_3OH	9814	Mach, 77
H_2O	+	Ar^*	11346	Matsuzawa, 71
H_2O	+	He^*	11346	Matsuzawa, 71
H_2O	+	Ne^*	11346	Matsuzawa, 71
SO_2	+	Ar^*	11346	Matsuzawa, 71
SO_2	+	He^*	11346	Matsuzawa, 71
SO_2	+	Ne^*	11346	Matsuzawa, 71

ORIGINAL DATA

NH_3	+	Ar^*	11346	Matsuzawa, 71
NH_3	+	He^*	11346	Matsuzawa, 71
NH_3	+	Ne^*	11346	Matsuzawa, 71

REFERENCE

H	+	Ar	13680	Olson, 70
H	+	He	13680	Olson, 70
H	+	Kr	13680	Olson, 70
H	+	Ne	13680	Olson, 70
H	+	H_2	13680	Olson, 70
H	+	N_2	13680	Olson, 70
H	+	O_2	13680	Olson, 70
H			14685	Duman, 79
			15174	Senashenko, 70
H^*	+	H^*	10811	Nakamura, 77
H^{+1}	+	H	13720	Lebeda, 71
			15264	Mukherjee, 73
He			15174	Senashenko, 70
–		–	7998	Simons, 76
			8433	Pradhan, 76
			9796	Dappen, 77
			11067	Fowler, 72
			11122	Kruglova, 78
			12216	Nakamura, 78
			12857	Devdariani, 77
			13294	Dalidchik, 75
			13395	McGuire, 73
			13744	Fleischmann, 72
			14080	Rankin, 78
			14296	Reading, 79
			14330	Percival, 77
			14503	Kunc, 79
			14532	Olson, 79
			15187	Nikolaev, 71
			15274	Dalidchik, 70

DETACHMENT EXPERIMENTAL

REVIEW

H^-			15080	Tawara, 73
			15418	Fedorenko, 71

ORIGINAL DATA

Ar	+	Cl^-	11477	Fayeton, 78
Ar	+	H^-	11845	Esaulov, 78
Br^-	+	Ar	12766	Smith, 78
Br^-	+	He	12766	Smith, 78
Br^-	+	Kr	12766	Smith, 78
Br^-	+	Ne	12766	Smith, 78
Br^-	+	O_2	5917	Tiernan, 71
C^-	+	Mg	7793	Ilin, 75

ORIGINAL DATA

Cl^-	+	Ar	7724	Champion, 76
			7792	Champion, 75
			10832	Fayeton, 77
			12766	Smith, 78
Cl^-	+	He	5872	Cunningham, 73
			12766	Smith, 78
Cl^-	+	Kr	7724	Champion, 76
			12766	Smith, 78
Cl^-	+	Ne	7724	Champion, 76
			12766	Smith, 78
Cl^-	+	Xe	7724	Champion, 76
Cl^-	+	H_2	5872	Cunningham, 73
Cl^-	+	O_2	5917	Tiernan, 71
D^-	+	Ar	7994	Champion, 76
D^-	+	Cs	14673	Schlachter, 79
D^-	+	He	7994	Champion, 76
			13412	Lam, 74
D^-	+	Ne	7994	Champion, 76
D^-	+	N_2	7994	Champion, 76
D^-	+	O_2	5917	Tiernan, 71
F^-	+	Ar	11571	Mandl, 70
			11638	Mandl, 70
F^-	+	Cs^{+1}	11571	Mandl, 70
			11638	Mandl, 70
F^-	+	He	13405	Edwards, 74
F^-	+	CO	11191	Mandl, 72
F^-	+	H_2	11191	Mandl, 72
F^-	+	N_2	12133	Mandl, 71
H^-	+	Ar	7790	Risley, 75
			7994	Champion, 76
			10831	Greenland, 77
			13406	Risley, 74
			13419	Risley, 74
			13580	Simpson, 72
			14694	Risley, 79
H^-	+	Cs	15172	Spiess, 70
H^-	+	H	13580	Simpson, 72
			14691	Esaulov, 79
			15098	Janev, 74
H^-	+	He	7790	Risley, 75
			7791	Harnois, 75
			7994	Champion, 76
			10831	Greenland, 77
			13161	McCaughey, 72
			13165	Risley, 72
			13406	Risley, 74
			13412	Lam, 74
			13419	Risley, 74
			13580	Simpson, 72
			14694	Risley, 79
H^-	+	Kr	14694	Risley, 79
H^-	+	Na	14695	Esaulov, 79
H^-	+	Ne	7994	Champion, 76
			14694	Risley, 79
H^-	+	Xe	14694	Risley, 79
H^-	+	H_2	10831	Greenland, 77
			13406	Risley, 74
			13419	Risley, 74
H^-	+	N_2	7989	Dose, 75
			7994	Champion, 76
			10831	Greenland, 77
			13419	Risley, 74
H^-	+	O_2	7989	Dose, 75
			12015	Bailey, 70
			13419	Risley, 74
H^-	+	H_2O	15379	Baribaud, 71
He	+	D^-	11845	Esaulov, 78
He	+	H^-	11807	Risley, 78
			11845	Esaulov, 78
He^-	+	Ar	13580	Simpson, 72
He^-	+	H	13580	Simpson, 72
He^-	+	He	13580	Simpson, 72
I^-	+	Ne	14696	De Vreugd, 79
I^-	+	O_2	5917	Tiernan, 71
Kr	+	Cl^-	11477	Fayeton, 78
Ne	+	Cl^-	11477	Fayeton, 78
Ne	+	H^-	11845	Esaulov, 78
O^-	+	Ar	12016	Wynn, 70
			13700	Edwards, 71
O^-	+	He	5628	Edwards, 73
			12016	Wynn, 70
			13432	Comer, 74
			13700	Edwards, 71
O^-	+	Ne	12016	Wynn, 70
O^-	+	CO	13225	Comer, 74
			13432	Comer, 74
O^-	+	H_2	13225	Comer, 74
			13432	Comer, 74
			13700	Edwards, 71
O^-	+	N_2	11928	Compton, 70
			13432	Comer, 74
O^-	+	NO	13432	Comer, 74
O^-	+	O_2	5917	Tiernan, 71
			12015	Bailey, 70
			13225	Comer, 74
			13366	Mauer, 73
			13432	Comer, 74
O^-	+	CO_2	13432	Comer, 74
O^-	+	O_3	15444	Lifshitz, 77
O^-	+	C_2H_2	13432	Comer, 74

DETACHMENT EXPERIMENTAL

ORIGINAL DATA

O^-	+	CH_4	13432	Comer, 74
S^-	+	CO	13432	Comer, 74
S^-	+	O_2	5917	Tiernan, 71
			13432	Comer, 74
S^-	+	H_2O	13432	Comer, 74
S^-	+	O_3	15444	Lifshitz, 77
Xe	+	Cl^-	11477	Fayeton, 78
NO^-	+	He	5175	McFarland, 72
NO^-	+	Ne	5175	McFarland, 72
NO^-	+	CO	5175	McFarland, 72
NO^-	+	H_2	5175	McFarland, 72
NO^-	+	NO	5175	McFarland, 72
NO^-	+	CO_2	5175	McFarland, 72
NO^-	+	N_2O	5175	McFarland, 72
NO^-	+	NH_3	5175	McFarland, 72
OH^-	+	He	12016	Wynn, 70
OH^-	+	O_2	12015	Bailey, 70
O_2^-	+	He	12016	Wynn, 70
O_2^-	+	O_2	12015	Bailey, 70
SH^-	+	O_2	5917	Tiernan, 71
CF_3^-	+	CF_4	15100	Suleebka, 74
UF_6^-	+	Ar	14697	Champion, 79

REFERENCE

Cl^-	+	H_2	10834	Cheung, 77
H^-	+	Ar	7578	Risley, 75
			14606	Risley, 79
H^-	+	H	7578	Risley, 75
			14692	Geddes, 79
H^-	+	He	14606	Risley, 79
H^-	+	Xe	14606	Risley, 79
H^-	+	N_2	7937	Risley, 75
			14606	Risley, 79
I^-	+	He	6095	Cunningham, 74
I^-	+	Ne	14808	De Vreugd, 79
Ions			14319	Dolder, 77
– –			8410	Craggs, 71

DETACHMENT THEORETICAL

ORIGINAL DATA

Br^-	+	He	15058	Olson, 79
C^-	+	Ca^*	13706	Blaney, 71
C^-	+	He^*	13706	Blaney, 71
Cl^-	+	He^*	13706	Blaney, 71
F^-	+	Ar	10876	Shui, 73
F^-	+	CO	10876	Shui, 73

DETACHMENT THEORETICAL

ORIGINAL DATA

F^-	+	N_2	10876	Shui, 73
H	+	He	13436	Risley, 74
H^-	+	Ca^*	13706	Blaney, 71
H^-	+	Cs	8007	Olson, 76
H^-	+	H	13510	Bell, 78
			13549	Janev, 71
			13725	Mizuno, 71
			13995	Bieniek, 79
H^-	+	H^*	13706	Blaney, 71
H^-	+	H^{+1}	13589	Gayet, 73
			14290	Bell, 78
H^-	+	He	13510	Bell, 78
			14693	Gauyacq, 79
			15036	Herzenberg, 79
			15426	Devdariani, 73
H^-	+	He^*	13706	Blaney, 71
H^-	+	Ne	15426	Devdariani, 73
H^-			10804	Demkov, 77
He^-	+	Ar	13214	Snyder, 73
He^-	+	He	13214	Snyder, 73
He^-	+	H_2	13214	Snyder, 73
O^-	+	Ca^*	13706	Blaney, 71
O^-	+	He^*	13706	Blaney, 71
O^-	+	O	13549	Janev, 71
O^-	+	N_2	5766	Rebentrost, 73
			13955	Aleksandrov, 78
O^-	+	O_2	4920	Eccles, 70
			5766	Rebentrost, 73
			13955	Aleksandrov, 78
NO^-	+	H_2	15043	Aleksandrov, 79
NO^-	+	CO_2	15043	Aleksandrov, 79
NO^-	+	N_2O	6536	Dutton, 75
O_2^-	+	N_2	13955	Aleksandrov, 78
O_2^-	+	O_2	13955	Aleksandrov, 78
O_3^-	+	O_2	4920	Eccles, 70

REFERENCE

H^-			15323	Drukarev, 70
O^-	+	O_2	4947	Wagner, 71
– –			10870	Borodin, 77
			13294	Dalidchik, 75
			14304	Herzenberg, 77
			15351	Dalidchik, 74

CHARGE TRANSFER EXPERIMENTAL

REVIEW

Ar^{+1}	+	Ar	8173	Salzborn, 76
Ar^{+2}	+	Ar	8173	Salzborn, 76

REVIEW

H			15080	Tawara, 73
			15418	Fedorenko, 71
H^{+1}	+	H^-	7578	Risley, 75
H^{+1}			15080	Tawara, 73
			15418	Fedorenko, 71
Ne^{+1}	+	Ar	8173	Salzborn, 76
O^{+1}	+	O	13141	Torr, 78
O^{+1}	+	N_2	13141	Torr, 78
O^{+1}	+	NO	13141	Torr, 78
O^{+1}	+	O_2	13141	Torr, 78
O^{+2}	+	O	13141	Torr, 78
N_2^{+1}	+	O	13141	Torr, 78
– –			7228	Franklin, 74
			7246	Ferguson, 75
			7577	Bayfield, 75
			8248	Moseley, 75
			12978	Watson, 78
			14334	Los, 77
			14885	Gilbody, 70
			15156	Doering, 73
			15158	Wexler, 73
			15167	Baede, 75
			15240	Gilbody, 71

ORIGINAL DATA

Al	+	O_2	12545	Cohen, 73
Al^{+1}	+	Kr	10785	Dowek, 77
Al^{+1}	+	Ne	10785	Dowek, 77
Al^{+1}	+	Xe	10785	Dowek, 77
Al^{+1}	+	N_2	7853	Rutherford, 75
Al^{+1}	+	O_2	7853	Rutherford, 75
Ar	+	Ar^{+1}	10221	Hegerberg, 78
Ar	+	Ar^{+2}	9909	Suk, 77
Ar	+	Cs	13413	Meyer, 74
Ar	+	H	9865	Roussel, 77
			10679	Roussel, 77
			10680	Pradel, 77
			14763	Aberle, 79
Ar	+	H^-	7869	Edwards, 75
			10458	Harnois, 77
Ar	+	$H^{\bullet}$	9865	Roussel, 77
			10679	Roussel, 77
			10680	Pradel, 77
			13575	Dose, 72
Ar	+	He	7787	Roussel, 75
Ar	+	He^{+1}	9791	Sidis, 77
Ar	+	Li	13010	Bouliou, 78
Ar	+	N^{+1}	10051	Vujovic, 77
Ar	+	O^-	7869	Edwards, 75

ORIGINAL DATA

Ar	+	D_2^-	11242	Schnitzer, 78
$Ar^{\bullet}$	+	I_2	11918	Gillen, 78
$Ar^{\bullet}$	+	CH_3NO_2	10427	Stockdale, 74
Ar^{+1}	+	Ar	10295	Kaiser, 74
			10779	Nose, 77
			11019	Sen Sharma, 72
			11800	Vestal, 78
			14904	Jones, 70
			14911	Rosenberg, 73
			14942	Hishinuma, 72
			14955	Kobayashi, 75
			15079	Lavigne, 72
			15145	Smith, 71
			15430	Kikiani, 75
Ar^{+1}	+	Ca	13625	Green, 74
Ar^{+1}	+	Cd	7814	Soskida, 75
			15402	Soskida, 75
Ar^{+1}	+	Hg	13386	Johnsen, 73
Ar^{+1}	+	Kr	7372	Huber, 75
			10780	Kikiani, 77
			10820	Kaneko, 77
			11798	Johnsen, 78
			12940	Maier II, 78
			15145	Smith, 71
Ar^{+1}	+	Ne	12940	Maier II, 78
Ar^{+1}	+	Xe	10780	Kikiani, 77
			12940	Maier II, 78
			15145	Smith, 71
Ar^{+1}	+	Zn	15402	Soskida, 75
Ar^{+1}	+	CO	9138	Hedrick, 77
			9145	Latimer, 77
			9596	Kobayashi, 77
			10306	Laudenslager, 74
			10796	Goldberger, 77
			13561	Birkinshaw, 71
			13689	Haugh, 70
			13692	Liu, 70
			13997	Rakshit, 78
			14906	Derrick, 71
			14951	Kobayashi, 74
			15145	Smith, 71
			15286	Hyatt, 72
			15334	Gusev, 71
			15386	Polyakova, 70
Ar^{+1}	+	Cs_2	9632	Tsuji, 77
Ar^{+1}	+	D_2	10400	Rayborn, 74
			11019	Sen Sharma, 7
Ar^{+1}	+	HBr	11061	Tomcho, 72
			13689	Haugh, 70
Ar^{+1}	+	HCl	10482	Haugh, 73
			11061	Tomcho, 72
			13689	Haugh, 70
Ar^{+1}	+	H_2	9138	Hedrick, 77

Ar^{+1}	+	H_2	9145	Latimer, 77
			10400	Rayborn, 74
			10873	Ryan, 73
			11019	Sen Sharma, 72
			11594	Rothwell Jr., 78
			14399	Lindinger, 77
			15145	Smith, 71
Ar^{+1}	+	N_2	7192	Fernandez, 75
			9138	Hedrick, 77
			9145	Latimer, 77
			10295	Kaiser, 74
			10306	Laudenslager, 74
			10795	Hodge Jr., 77
			11006	Moran, 72
			11229	Howorka, 78
			13561	Birkinshaw, 71
			13692	Liu, 70
			13997	Rakshit, 78
			14901	Fromont, 70
			14911	Rosenberg, 73
			15145	Smith, 71
			15286	Hyatt, 72
Ar^{+1}	+	NO	7674	Herman, 76
			8844	Collin, 76
			9138	Hedrick, 77
			9596	Kobayashi, 77
			10306	Laudenslager, 74
			13561	Birkinshaw, 71
			14951	Kobayashi, 74
			15145	Smith, 71
			15286	Hyatt, 72
Ar^{+1}	+	O_2	9138	Hedrick, 77
			9145	Latimer, 77
			9596	Kobayashi, 77
			10306	Laudenslager, 74
			10825	Lindinger, 77
			11229	Howorka, 78
			11616	Smith, 70
			12041	Adams, 70
			13561	Birkinshaw, 71
			13997	Rakshit, 78
			14951	Kobayashi, 74
			15145	Smith, 71
			15286	Hyatt, 72
Ar^{+1}	+	CO_2	6984	Bregman-Reisler, 75
			7169	Harland, 75
			7727	Hedrick, 76
			9384	Sim, 76
			10306	Laudenslager, 74
			10400	Rayborn, 74
			10825	Lindinger, 77
			13692	Liu, 70
			13997	Rakshit, 78
			14399	Lindinger, 77
			15145	Smith, 71
Ar^{+1}	+	CS_2	13689	Haugh, 70

Ar^{+1}	+	H_2O	10818	Marx, 77
			11503	Mauclaire, 78
			12986	Karpas, 78
			13363	Lindinger, 73
Ar^{+1}	+	H_2S	11792	Fukutome, 78
			14232	Jowko, 79
Ar^{+1}	+	N_2O	7169	Harland, 75
			9144	Bearman, 77
			10306	Laudenslager, 74
			11131	Ryan, 72
			13689	Haugh, 70
			13692	Liu, 70
Ar^{+1}	+	C_2H_2	7234	Lehrle, 75
			11142	Lifshitz, 72
			14905	Jones, 71
			15145	Smith, 71
Ar^{+1}	+	NH_3	13519	Bolden, 70
			14232	Jowko, 79
Ar^{+1}	+	CD_4	12527	Bowers, 72
Ar^{+1}	+	CF_4	11340	Smith, 71
			15145	Smith, 71
Ar^{+1}	+	CH_3Cl	14905	Jones, 71
Ar^{+1}	+	CH_3F	14905	Jones, 71
Ar^{+1}	+	CH_4	7727	Hedrick, 76
			10306	Laudenslager, 74
			12527	Bowers, 72
			12528	Gaugehofer, 72
			12613	Ausloos, 75
			13150	Li, 78
			14905	Jones, 71
			15145	Smith, 71
Ar^{+1}	+	SiH_4	12527	Bowers, 72
			12613	Ausloos, 75
Ar^{+1}	+	C_2D_4	14905	Jones, 71
Ar^{+1}	+	$C_2H_2Cl_2$	10960	Su, 73
Ar^{+1}	+	$C_2H_2Fl_2$	11053	Bowers, 72
Ar^{+1}	+	C_2H_4	7727	Hedrick, 76
			14902	Smith, 70
			14905	Jones, 71
			15145	Smith, 71
Ar^{+1}	+	CH_3OH	11142	Lifshitz, 72
Ar^{+1}	+	C_2F_6	11340	Smith, 71
			15145	Smith, 71
Ar^{+1}	+	C_2H_6	7727	Hedrick, 76
			12527	Bowers, 72
			14905	Jones, 71
			15145	Smith, 71
Ar^{+1}	+	C_3H_6	15145	Smith, 71
Ar^{+1}	+	C_3H_8	12527	Bowers, 72
			15145	Smith, 71
Ar^{+1}	+	$C_6H_4F_2$	10960	Su, 73

Ar^{+1}	+	C_6H_6	14787	Tedder, 79
Ar^{+1}	+	C_4H_{10}	15145	Smith, 71
Ar^{+2}	+	Ar	7610	Ast, 75
			9518	Klinger, 76
			9748	Howorka, 77
			11164	Cosby, 72
			11601	Maier II, 78
			12752	Johnsen, 78
			14689	Okuno, 79
			14690	Bliman, 79
			14778	Johnsen, 79
			14784	Smith, 79
Ar^{+2}	+	He	7610	Ast, 75
			8863	Muller, 76
			11601	Maier II, 78
			12752	Johnsen, 78
			14719	Johnsen, 79
			14778	Johnsen, 79
			14784	Smith, 79
Ar^{+2}	+	Kr	7610	Ast, 75
			9518	Klinger, 76
			11601	Maier II, 78
			14778	Johnsen, 79
Ar^{+2}	+	Na	14664	Matsumoto, 79
Ar^{+2}	+	Ne	7610	Ast, 75
			11601	Maier II, 78
			13196	Maher, 71
			14778	Johnsen, 79
Ar^{+2}	+	Xe	7610	Ast, 75
			14778	Johnsen, 79
			14784	Smith, 79
Ar^{+2}	+	D_2	13196	Maher, 71
Ar^{+2}	+	N_2	9518	Klinger, 76
			11229	Howorka, 78
			15025	Neuschafer, 79
Ar^{+2}	+	O_2	10823	Lindinger, 77
			11229	Howorka, 78
Ar^{+2}	+	CO_2	10823	Lindinger, 77
			14399	Lindinger, 77
Ar^{+2}	+	CH_4	14784	Smith, 79
Ar^{+3}	+	Ar	9518	Klinger, 76
			14690	Bliman, 79
Ar^{+3}	+	He	8863	Muller, 76
			11601	Maier II, 78
			11913	Afrosimov, 77
Ar^{+3}	+	Kr	9518	Klinger, 76
Ar^{+3}	+	N_2	9518	Klinger, 76
Ar^{+4}	+	Ar	9123	Crandall, 77
			9518	Klinger, 76
Ar^{+4}	+	He	8863	Muller, 76
			11913	Afrosimov, 77
Ar^{+4}	+	Kr	9518	Klinger, 76
Ar^{+4}	+	N_2	9518	Klinger, 76
Ar^{+5}	+	Ar	9123	Crandall, 77
			9518	Klinger, 76
Ar^{+5}	+	He	8863	Muller, 76
			11913	Afrosimov, 77
Ar^{+5}	+	Kr	9518	Klinger, 76
Ar^{+5}	+	N_2	9518	Klinger, 76
Ar^{+6}	+	He	8863	Muller, 76
			11913	Afrosimov, 77
Ar^{+7}	+	He	8863	Muller, 76
			11913	Afrosimov, 77
Ar^{+8}	+	He	8863	Muller, 76
B^{+1}	+	CD_3OH	11142	Lifshitz, 72
B^{+2}	+	H	14250	Crandall, 79
			14688	Nutt, 79
			15217	McCullough, 79
B^{+2}	+	H_2	14250	Crandall, 79
			14688	Nutt, 79
			15217	McCullough, 79
B^{+3}	+	H	14250	Crandall, 79
B^{+3}	+	H_2	14250	Crandall, 79
Ba	+	O_2	12545	Cohen, 73
Ba^{+1}	+	Ar	12235	Ovchinnikov, 77
Ba^{+1}	+	Ba	7613	Panev, 75
			15452	Gaev, 74
Ba^{+2}	+	H	14688	Nutt, 79
Ba^{+2}	+	H_2	14688	Nutt, 79
			15217	McCullough, 79
Be^{+1}	+	He	7282	Olsen, 75
			14196	Olsen, 79
Be^{+1}	+	Ne	14196	Olsen, 79
Be^{+3}	+	He	13732	Zwally, 71
Br^-	+	O_2	10044	Vogt, 77
C	+	C^{+4}	9580	Dixon, 77
C	+	C^{+5}	9580	Dixon, 77
C	+	C^{+6}	9580	Dixon, 77
C	+	Cs	14282	Nagata, 79
C	+	K	14282	Nagata, 79
C	+	Na	14282	Nagata, 79
C	+	O_2	12612	Konnen, 75
C^{+1}	+	Ar	11802	Moran, 78
C^{+1}	+	Cs	14282	Nagata, 79
C^{+1}	+	H	13952	Nutt, 79
C^{+1}	+	K	14282	Nagata, 79
C^{+1}	+	Kr	9633	Lehmann, 76
C^{+1}	+	Na	14282	Nagata, 79
C^{+1}	+	Ne	10781	Dowek, 77

C^{+1}	+	CO	11373	Maher,	71
C^{+1}	+	CO	11802	Moran,	78
			14906	Derrick,	71
C^{+1}	+	H_2	11802	Moran,	78
			12753	Lockwood,	78
			13952	Nutt,	79
C^{+1}	+	N_2	11427	Ottinger,	78
			11802	Moran,	78
			12753	Lockwood,	78
C^{+1}	+	O_2	11802	Moran,	78
			13997	Rakshit,	78
C^{+1}	+	CO_2	11802	Moran,	78
			13997	Rakshit,	78
C^{+1}	+	N_2O	15013	Sunner,	79
C^{+1}	+	C_2H_2	11133	Lindemann,	72
C^{+1}	+	CH_3F	11938	Wilson,	70
C^{+1}	+	CH_4	12068	Wilson,	70
C^{+1}	+	C_2H_4	11133	Lindemann,	72
C^{+1}	+	C_2H_6	11133	Lindemann,	72
C^{+1}	+	CH_3COCH_3	14806	Freeman,	79
C^{+2}	+	Ar	13551	Hasted,	71
			14769	Viggiano,	79
C^{+2}	+	H	11403	Nutt,	78
C^{+2}	+	He	8209	Makhdis,	76
			13551	Hasted,	71
C^{+2}	+	Ne	8209	Makhdis,	76
			13551	Hasted,	71
			14769	Viggiano,	79
C^{+2}	+	Xe	14769	Viggiano,	79
C^{+2}	+	H_2	11403	Nutt,	78
C^{+3}	+	H_2	9123	Crandall,	77
C^{+4}	+	Ar	13693	Zwally,	70
C^{+4}	+	He	8162	Crandall,	76
			13693	Zwally,	70
C^{+4}	+	Ne	13693	Zwally,	70
C^{+4}	+	H_2	9123	Crandall,	77
Ca^{+1}	+	Ca	7613	Panev,	75
			11154	Rutherford,	72
			15452	Gaev,	74
Ca^{+1}	+	Kr	12235	Ovchinnikov,	77
Ca^{+2}	+	NO	11035	Spears,	72
Ca^{+2}	+	NO_2	11035	Spears,	72
Cd^{+2}	+	H	14688	Nutt,	79
			15217	McCullough,	79
Cd^{+2}	+	H_2	14688	Nutt,	79
			15217	McCullough,	79
Cl^-	+	O_2	10044	Vogt,	77
Cl^{+1}	+	N_2O	15013	Sunner,	79

Cs	+	Br	14039	Burdett,	79
Cs	+	Cl	14039	Burdett,	79
Cs	+	Cs^{+1}	10045	Oluwole,	77
Cs	+	D^{+1}	10797	Schlachter,	77
Cs	+	H^-	13716	Leslie,	71
Cs	+	H^{+1}	10836	Van Wassenhove,	77
Cs	+	He^{+1}	9621	Schuessler,	77
Cs	+	I	14039	Burdett,	79
Cs	+	Mg^{+1}	10216	Zavilopulo,	77
Cs	+	O	13420	Vora,	74
Cs	+	Br_2	9523	Hubers,	76
			10388	Kashihira,	74
			10994	Leffert,	73
Cs	+	Cl_2	9523	Hubers,	76
Cs	+	HCl	10828	Kleyn,	77
Cs	+	HI	10828	Kleyn,	77
Cs	+	ICl	9523	Hubers,	76
Cs	+	I_2	9523	Hubers,	76
			9619	Aten,	77
Cs	+	NO	5883	Nalley,	73
Cs	+	O_2	5883	Nalley,	73
			6663	Rothe,	75
			10828	Kleyn,	77
			12477	Nalley,	71
			13052	Kleyn,	78
Cs	+	CO_2	10293	Tang,	74
Cs	+	CS_2	10293	Tang,	74
Cs	+	D_3^-	10801	Cisneros,	77
Cs	+	D_2O	10830	Warmack,	77
Cs	+	N_2O	5883	Nalley,	73
Cs	+	NO_2	5883	Nalley,	73
			6663	Rothe,	75
			10994	Leffert,	73
Cs	+	OCS	10293	Tang,	74
Cs	+	O_3	6663	Rothe,	75
Cs	+	SO_2	6663	Rothe,	75
Cs	+	PCl_3	8974	Mathur,	76
Cs	+	SO_3	6663	Rothe,	75
Cs	+	CF_3I	7771	Tang,	76
Cs	+	CH_3I	10828	Kleyn,	77
Cs	+	SeF_6	11293	Compton,	78
Cs	+	UF_6	9296	Compton,	77
			10826	Annis,	77
			12245	Annis,	78
Cs	+	$C_4H_2O_3$	10415	Compton,	74
Cs^{+1}	+	Cs	11248	Anton,	78
			12934	Nienstadt,	78

Ca^{+1}	+	Cs	13677	Perel, 70
Cs^{+2}	+	H_2	14687	Huber, 79
Cs^{+3}	+	H_2	14687	Huber, 79
Cs^{+4}	+	H_2	14687	Huber, 79
Cs^{+5}	+	H_2	14687	Huber, 79
Cu^{+1}	+	Kr	13530	Cobic, 70
Cu^{+1}	+	Ne	13530	Cobic, 70
Cu^{+1}	+	N_2	13530	Cobic, 70
D	+	Cs	14673	Schlachter, 79
D	+	Xe	8466	Morgan, 76
D	+	Cs_2	12114	Lee, 71
D	+	K_2	12114	Lee, 71
D	+	Rb_2	12114	Lee, 71
D^{+1}	+	Ar	13401	Dawson, 74
D^{+1}	+	Ba	14278	Morgan, 79
D^{+1}	+	Cs	7722	Meyer, 75
			7805	Anderson, 75
			13425	Pradel, 74
			14892	Gruebler, 70
D^{+1}	+	H	13427	Kondow, 74
D^{+1}	+	He	13401	Dawson, 74
D^{+1}	+	K	14892	Gruebler, 70
D^{+1}	+	Kr	13401	Dawson, 74
D^{+1}	+	Li	14892	Gruebler, 70
D^{+1}	+	Mg	14278	Morgan, 79
D^{+1}	+	Na	14892	Gruebler, 70
D^{+1}	+	Xe	8466	Morgan, 76
D^{+1}	+	D_2	12091	Holliday, 71
D^{+1}	+	H_2	13441	Loyd, 75
			14707	Peterson, 79
D^{+1}	+	N_2	13441	Loyd, 75
D^{+1}	+	O_2	13441	Loyd, 75
F^{+1}	+	CO	14906	Derrick, 71
F^{+1}	+	N_2O	15013	Sunner, 79
Fe^{+1}	+	Kr	13530	Cobic, 70
Fe^{+1}	+	Ne	13530	Cobic, 70
Fe^{+1}	+	N_2	13530	Cobic, 70
Ga	+	Br	14039	Burdett, 79
Ga	+	Cl	14039	Burdett, 79
Ga	+	I	14039	Burdett, 79
H	+	Ar	7991	Thomas, 75
			9280	Van Zyl, 77
			10987	Dehmel, 73
			11759	Aberle, 78
H	+	Cs	14668	Nagata, 79
			14672	Pradel, 79
			15172	Spiess, 70

H	+	H	10678	Claeys, 77
			10679	Roussel, 77
			15069	Hill, 79
H	+	H^-	14691	Esaulov, 79
H	+	H^*	10679	Roussel, 77
			15069	Hill, 79
H	+	H^{+1}	9877	Chong, 77
H	+	He	7787	Roussel, 75
			7991	Thomas, 75
			12974	Kudryavtsev, 77
H	+	He^{+1}	9886	Olson, 77
H	+	He^{+2}	9886	Olson, 77
			10223	Shah, 78
H	+	K	14668	Nagata, 79
H	+	Kr	10987	Dehmel, 73
			11759	Aberle, 78
H	+	Rb	14668	Nagata, 79
H	+	Xe	8466	Morgan, 76
			10987	Dehmel, 73
			11759	Aberle, 78
H	+	CO	10987	Dehmel, 73
			11969	McNeal, 70
			15349	Afrosimov, 74
H	+	Cs_2	12114	Lee, 71
H	+	H_2	7787	Roussel, 75
			7991	Thomas, 75
H	+	K_2	12114	Lee, 71
H	+	N_2	7991	Thomas, 75
			12974	Kudryavtsev, 77
			13344	Van Zyl, 78
			13754	Spiess, 72
H	+	O_2	11759	Aberle, 78
			13344	Van Zyl, 78
H	+	Rb_2	12114	Lee, 71
H	+	CO_2	10987	Dehmel, 73
			11969	McNeal, 70
H	+	NH_3	11969	McNeal, 70
H	+	CH_4	10987	Dehmel, 73
			11969	McNeal, 70
H^-	+	N_2	10198	Risley, 77
H^*	+	Ar	15067	Hill, 79
H^*	+	He	15067	Hill, 79
H^*	+	He^{+2}	9795	Burniaux, 77
			10675	Szucs, 77
H^*	+	Kr	15067	Hill, 79
H^*	+	Ne	15067	Hill, 79
H^*	+	N_2	13754	Spiess, 72
H^{+1}	+	Ar	7671	Monnom, 75
			7788	Thomas, 75

H^{+1}	+	Ar	7803	Risley, 75
			7932	Suchannek, 75
			7991	Thomas, 75
			8387	Suchannek, 75
			9122	Dawson, 77
			10812	Rodbro, 77
			11102	Latypov, 76
			11795	Risley, 78
			12221	Doughty, 78
			12521	Johnson, 72
			13213	Durup, 72
			13372	Crandall, 73
			13401	Dawson, 74
			13446	Suchannek, 75
			13579	Abignoli, 72
			13603	Morgan, 73
			13688	Teubner, 70
			13704	Fitzwilson, 71
			13730	Crandall, 71
			13731	McKnight, 71
			14278	Morgan, 79
			14357	King, 79
			14659	Risley, 79
H^{+1}	+	Ba	10798	Morgan, 77
			13690	McFarland, 70
			14278	Morgan, 79
			14743	Morgan, 79
H^{+1}	+	Cs	7722	Meyer, 75
			7805	Anderson, 75
			11296	Haueisen, 78
			13410	Tuan, 74
			13425	Pradel, 74
			13754	Spiess, 72
			14294	Pradel, 79
			14512	Nagata, 79
			14668	Nagata, 79
			14671	Pradel, 79
			14892	Gruebler, 70
			15172	Spiess, 70
			15241	Vu Ngoc Tuan, 74
H^{+1}	+	Fe	11155	Rutherford, 72
H^{+1}	+	H	13174	Koch, 75
			13187	Bayfield, 70
			13427	Kondow, 74
			13603	Morgan, 73
			13619	Houver, 74
			14497	Hill, 79
H^{+1}	+	H^-	8822	Peart, 76
			10810	Brouillard, 77
			13185	Moseley, 70
			13202	Gaily, 70
			13709	Peterson, 71
			14364	Brouillard, 79
H^{+1}	+	H^*	14883	Malaviya, 70
H^{+1}	+	He	7565	Kleckner, 74
			7803	Risley, 75
H^{+1}	+	He	7931	Kleckner, 75
			7991	Thomas, 75
			9122	Dawson, 77
			10812	Rodbro, 77
			11102	Latypov, 76
			11795	Risley, 78
			12221	Doughty, 78
			13181	Jaecks, 70
			13213	Durup, 72
			13372	Crandall, 73
			13401	Dawson, 74
			13579	Abignoli, 72
			13674	Keever, 70
			13688	Teubner, 70
			13704	Fitzwilson, 71
			13730	Crandall, 71
			13731	McKnight, 71
			13759	Fitzwilson, 72
			14357	King, 79
			14659	Risley, 79
			15400	Latypov, 73
H^{+1}	+	K	8144	Nagata, 76
			13690	McFarland, 70
			14512	Nagata, 79
			14668	Nagata, 79
			14892	Gruebler, 70
H^{+1}	+	Kr	7811	Benoit, 75
			9122	Dawson, 77
			9599	Benoit, 77
			9633	Lehmann, 76
			10365	Doughty, 78
			11102	Latypov, 76
			12221	Doughty, 78
			12521	Johnson, 72
			13401	Dawson, 74
			13579	Abignoli, 72
			13737	Maier II, 72
			14357	King, 79
			14659	Risley, 79
H^{+1}	+	Li	14892	Gruebler, 70
			15060	Myers, 79
			15421	Dyachkov, 72
H^{+1}	+	Mg	11791	Morgan, 78
			13690	McFarland, 70
			14278	Morgan, 79
			14743	Morgan, 79
			15421	Dyachkov, 72
H^{+1}	+	Na	11296	Haueisen, 78
			14512	Nagata, 79
			14892	Gruebler, 70
			15421	Dyachkov, 72
H^{+1}	+	Ne	7671	Monnom, 75
			10812	Rodbro, 77
			11102	Latypov, 76
			12221	Doughty, 78
			13213	Durup, 72

H^{+1}	+	Ne	13393	Martin, 73
			13527	Janev, 70
			13579	Abignoli, 72
			13688	Teubner, 70
			14357	King, 79
			14659	Risley, 79
			15400	Latypov, 73
H^{+1}	+	O	10291	Rutherford, 74
			11036	Fehsenfeld, 72
H^{+1}	+	Rb	14512	Nagata, 79
			14668	Nagata, 79
H^{+1}	+	Tl	13690	McFarland, 70
H^{+1}	+	Xe	7809	Morgan, 75
			7810	Kubach, 75
			7813	Martin, 75
			8466	Morgan, 76
			8867	Kubach, 76
			10365	Doughty, 78
			12221	Doughty, 78
			12940	Maier II, 78
			13579	Ahignoli, 72
			13737	Maier II, 72
			14357	King, 79
			14659	Risley, 79
H^{+1}	+	CO	11030	Birely, 72
			11969	McNeal, 70
			14258	Loyd, 79
			15349	Afrosimov, 74
H^{+1}	+	D_2	10404	Krenos, 74
			12091	Holliday, 71
			12117	Maier II, 71
H^{+1}	+	H_2	7991	Thomas, 75
			9122	Dawson, 77
			10812	Rodbro, 77
			12091	Holliday, 71
			13213	Durup, 72
			13441	Loyd, 75
			14357	King, 79
			14497	Hill, 79
			15189	Hess, 72
			15445	Fournier, 72
H^{+1}	+	N_2	7565	Kleckner, 74
			7671	Monnom, 75
			7931	Kleckner, 75
			7932	Suchannek, 75
			7991	Thomas, 75
			8387	Suchannek, 75
			9122	Dawson, 77
			9268	Eliot, 77
			13361	Hoffman, 73
			13376	Wehrenberg, 73
			13441	Loyd, 75
			13446	Suchannek, 75
			13584	Appell, 73
			13704	Fitzwilson, 71
H^{+1}	+	N_2	14357	King, 79
			14927	Birely, 71
			14968	Desesquelles, 75
H^{+1}	+	NO	11036	Fehsenfeld, 72
			13584	Appell, 73
H^{+1}	+	O_2	7565	Kleckner, 74
			7931	Kleckner, 75
			9122	Dawson, 77
			13439	Birely, 75
			13441	Loyd, 75
			13584	Appell, 73
			13704	Fitzwilson, 71
			14927	Birely, 71
H^{+1}	+	CO_2	7565	Kleckner, 74
			7931	Kleckner, 75
			10392	Haugh, 74
			11030	Birely, 72
			11969	McNeal, 70
			12059	Coplan, 70
			14258	Loyd, 79
H^{+1}	+	H_2O	12059	Coplan, 70
			13536	Dagnac, 70
H^{+1}	+	N_2O	9144	Bearman, 77
			13613	Appell, 74
			14258	Loyd, 79
			15013	Sunner, 79
H^{+1}	+	C_2H_2	13613	Appell, 74
H^{+1}	+	C_2N_2	13613	Appell, 74
H^{+1}	+	NH_3	11030	Birely, 72
			11969	McNeal, 70
			12059	Coplan, 70
H^{+1}	+	CH_4	7808	Eliot, 75
			9268	Eliot, 77
			11030	Birely, 72
			11969	McNeal, 70
			13613	Appell, 74
H^{+1}	+	C_2H_4	13613	Appell, 74
H^{+1}	+	CH_3OH	13613	Appell, 74
H^{+1}	+	C_2H_6	9268	Eliot, 77
			13613	Appell, 74
H^{+1}	+	C_3H_8	9268	Eliot, 77
			13613	Appell, 74
H^{+1}	+	C_6H_6	13613	Appell, 74
H^{+1}	+	C_4H_{10}	9268	Eliot, 77
H^{+2}	+	H	7221	Bayfield, 75
He	+	Ar	7787	Roussel, 75
He	+	B^{+3}	9878	Crandall, 77
He	+	C^{+4}	9878	Crandall, 77
He	+	H	7787	Roussel, 75
			9865	Roussel, 77
			10679	Roussel, 77
			10680	Pradel, 77

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He	+	H^{-}	10458	Harnois, 77
He	+	$H^{\cdot}$	9865	Roussel, 77
			10679	Roussel, 77
			10680	Pradel, 77
He	+	He^{+1}	10052	Helm, 77
			10221	Hegerberg, 78
He	+	Li	13010	Bouliou, 78
He	+	N^{+1}	10051	Vujovic, 77
He	+	N^{+5}	9878	Crandall, 77
He	+	O^{+6}	9878	Crandall, 77
He	+	Tl	15279	Ivanov, 73
He	+	CO	10274	Piper, 75
He	+	D_2^-	11242	Schnitzer, 78
He	+	N_2	10274	Piper, 75
He^{+1}	+	Ag	13625	Green, 74
He^{+1}	+	Ar	9153	Eisele, 77
			10780	Kikiani, 77
			10972	Moran, 73
			12940	Maier II, 78
			13180	Isler, 70
			13186	Lipeles, 70
			13386	Johnsen, 73
			13421	Isler, 74
			13600	Gerber, 73
			13682	Smith, 70
			13711	Lipeles, 71
			14662	Okasaka, 79
			14799	Kikiani, 78
			14811	Jones, 79
			14980	Muller, 70
			15145	Smith, 71
He^{+1}	+	Ba	11809	Zhukov, 77
			14488	Hultzsch, 79
He^{+1}	+	Ca	11809	Zhukov, 77
			14488	Hultzsch, 79
He^{+1}	+	Cd	8120	Auciello, 76
			11115	Ranjbar, 77
			13270	Aleinikov, 72
			13583	Turner-Smith, 73
			14257	Littlewood, 79
			14259	Kartazaev, 78
			15282	Soskida, 74
			15402	Soskida, 75
He^{+1}	+	Cs	7722	Meyer, 75
			12228	McCullough, 78
			13378	Bergman, 73
			15192	Montmagnon, 73
			15196	Meyer, 74
He^{+1}	+	Ga	13625	Green, 74
He^{+1}	+	Ge	13625	Green, 74
He^{+1}	+	H	7766	Fayeton, 76
			7956	Fayeton, 75

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He^{+1}	+	H^{-}	8823	Peart, 76
			13535	Gaily, 70
He^{+1}	+	H^{+1}	9779	Peart, 77
He^{+1}	+	He	8325	Eisele, 76
			10816	Helm, 77
			10817	Rundel, 77
			11150	Conrads, 72
			11801	Vestal, 78
			12225	Hinds, 78
			12595	Smith, 74
			13175	Jaecks, 75
			13605	Brenot, 75
			13670	MacVicar-Whelan, 70
			13701	Shelton, 71
			13723	Rosenthal, 71
			13749	Eriksen, 72
			14614	Rundel, 79
			14916	Milner, 74
			14954	Matsuoka, 74
			14980	Muller, 70
			15270	Nagy, 71
			15384	Latypov, 70
			15424	Latypov, 72
			15430	Kikiani, 75
He^{+1}	+	Hg	6916	Bogdanova, 74
			11794	Kartazaev, 77
			13270	Aleinikov, 72
			13386	Johnsen, 73
			14257	Littlewood, 79
			14830	Kano, 75
He^{+1}	+	I	13275	Tolmachev, 72
			14828	Shay, 75
He^{+1}	+	K	12093	Salop, 71
			12228	McCullough, 78
He^{+1}	+	Kr	7372	Huber, 75
			10780	Kikiani, 77
			13737	Maier II, 72
			14980	Muller, 70
			15145	Smith, 71
He^{+1}	+	Li	8120	Auciello, 76
			15060	Myers, 79
He^{+1}	+	Mg	7222	Baragiola, 75
			11809	Zhukov, 77
			12193	Myers, 78
He^{+1}	+	Na	10677	Pommier, 77
			12228	McCullough, 78
He^{+1}	+	Ne	7763	Barat, 76
			9153	Eisele, 77
			10780	Kikiani, 77
			12752	Johnsen, 78
			12940	Maier II, 78
			13188	Tolk, 70
			13386	Johnsen, 73
			13600	Gerber, 73
			14799	Kikiani, 78

He^{+1}	+	Ne	14980	Muller, 70
			15270	Nagy, 71
He^{+1}	+	$Ne^{\cdot}$	13971	Tang, 78
He^{+1}	+	Pb	7222	Baragiola, 75
He^{+1}	+	Rb	12093	Salop, 71
He^{+1}	+	Se	13583	Turner-Smith, 73
He^{+1}	+	Sr	11809	Zhukov, 77
He^{+1}	+	Te	13270	Aleinikov, 72
He^{+1}	+	Tl	13625	Green, 74
He^{+1}	+	Xe	9091	Jones, 77
			10780	Kikiani, 77
			13233	Benoit, 74
			13737	Maier II, 72
			14799	Kikiani, 78
			14980	Muller, 70
			15145	Smith, 71
He^{+1}	+	Zn	12193	Myers, 78
			13270	Aleinikov, 72
			13583	Turner-Smith, 73
			13595	Green, 73
			14257	Littlewood, 79
			15402	Soskida, 75
He^{+1}	+	CO	10274	Piper, 75
			10284	Coplan, 74
			10306	Laudenslager, 74
			10972	Moran, 73
			13997	Rakshit, 78
			14906	Derrick, 71
			15145	Smith, 71
			15334	Gusev, 71
			15386	Polyakova, 70
He^{+1}	+	Cs_2	9632	Tsuji, 77
He^{+1}	+	D_2	10285	Johnsen, 74
He^{+1}	+	HBr	10482	Haugh, 73
			11048	Haugh, 72
He^{+1}	+	HCl	10482	Haugh, 73
He^{+1}	+	H_2	7789	Shah, 75
			7946	Bray, 75
			9579	Bray, 77
			10285	Johnsen, 74
			10794	Afrosimov, 77
			10972	Moran, 73
			11760	Eriksen, 78
			13248	Polyakova, 70
			13758	Isler, 72
He^{+1}	+	N_2	6924	Leventhal, 75
			6930	Govers, 75
			7642	Kemper, 75
			7698	Marx, 75
			9419	Govers, 77
			10274	Piper, 75
			10306	Laudenslager, 74
			10824	Giese, 77

He^{+1}	+	N_2	10875	Kemper, 73
			10972	Moran, 73
			11006	Moran, 72
			11330	Holland, 71
			12586	Govers, 74
			13200	Fernandez, 71
			13519	Bolden, 70
			14710	Gochitashvili, 79
			15145	Smith, 71
He^{+1}	+	NO	10306	Laudenslager, 74
			10972	Moran, 73
			15145	Smith, 71
He^{+1}	+	O_2	10306	Laudenslager, 74
			10972	Moran, 73
			12610	Harris, 74
			13997	Rakshit, 78
			15145	Smith, 71
He^{+1}	+	CO_2	6984	Bregman-Reisler,
			9384	Sim, 76
			10306	Laudenslager, 74
			10392	Haugh, 74
			10972	Moran, 73
			10986	Coplan, 73
			11049	Coplan, 72
			12593	Bregman-Reisler
			15145	Smith, 71
He^{+1}	+	D_2O	9419	Govers, 77
He^{+1}	+	H_2O	9419	Govers, 77
			10818	Marx, 77
			11503	Mauclaire, 78
He^{+1}	+	N_2O	9144	Bearman, 77
			10306	Laudenslager, 74
			13997	Rakshit, 78
			15013	Sunner, 79
He^{+1}	+	C_2H_2	15145	Smith, 71
He^{+1}	+	NH_3	9096	Parker, 77
He^{+1}	+	CD_4	12527	Bowers, 72
He^{+1}	+	CF_4	11340	Smith, 71
			15145	Smith, 71
He^{+1}	+	CH_4	6928	Milner, 75
			10306	Laudenslager, 7
			10972	Moran, 73
			11503	Mauclaire, 78
			12527	Bowers, 72
			12528	Gaugehofer, 72
			15145	Smith, 71
He^{+1}	+	SiH_4	12527	Bowers, 72
He^{+1}	+	$C_2H_2Cl_2$	10960	Su, 73
He^{+1}	+	$C_2H_2Fl_2$	11053	Bowers, 72
He^{+1}	+	C_2H_4	10972	Moran, 73
			14902	Smith, 70
			15145	Smith, 71
He^{+1}	+	C_2F_6	11340	Smith, 71

He^{+1}	+	C_2F_6	15145	Smith, 71
He^{+1}	+	C_2H_6	10972	Moran, 73
			12527	Bowers, 72
			15145	Smith, 71
He^{+1}	+	C_3H_6	15145	Smith, 71
He^{+1}	+	C_3H_8	12527	Bowers, 72
			15145	Smith, 71
He^{+1}	+	$C_6H_4F_2$	10960	Su, 73
He^{+1}	+	C_4H_{10}	15145	Smith, 71
He^{+2}	+	Ar	7017	Schrey, 75
			7066	Khayrallah, 75
			7610	Ast, 75
			7623	Austin, 75
			8454	Shah, 76
			13159	Siegel, 72
			14686	Afrosimov, 79
He^{+2}	+	H	8454	Shah, 76
			10793	Shah, 77
			11796	Nutt, 78
			13614	Shah, 74
He^{+2}	+	He	7017	Schrey, 75
			7066	Khayrallah, 75
			7176	Chen, 75
			7610	Ast, 75
			7628	Afrosimov, 75
			7816	Afrosimov, 75
			8454	Shah, 76
			12752	Johnsen, 78
			13159	Siegel, 72
			13979	Afrosimov, 78
			14719	Johnsen, 79
			14778	Johnsen, 79
He^{+2}	+	He^{+1}	13347	Jognaux, 78
			15211	Peart, 79
He^{+2}	+	K	8454	Shah, 76
He^{+2}	+	Kr	7610	Ast, 75
			7623	Austin, 75
			8454	Shah, 76
			14686	Afrosimov, 79
He^{+2}	+	Mg	12193	Myers, 78
He^{+2}	+	Ne	7610	Ast, 75
			7623	Austin, 75
			11601	Maier II, 78
			13159	Siegel, 72
			14686	Afrosimov, 79
			14719	Johnsen, 79
			14778	Johnsen, 79
He^{+2}	+	Xe	7610	Ast, 75
			14686	Afrosimov, 79
He^{+2}	+	Zn	12193	Myers, 78
He^{+2}	+	CO	13232	Graham, 74
He^{+2}	+	H_2	7066	Khayrallah, 75
He^{+2}	+	H_2	8454	Shah, 76
			11796	Nutt, 78
			13232	Graham, 74
He^{+2}	+	N_2	7066	Khayrallah, 75
			8454	Shah, 76
He^{+2}	+	O_2	8454	Shah, 76
Hg^{+1}	+	Cs	13712	Perel, 71
Hg^{+1}	+	N_2O	15013	Sunner, 79
Hg^{+1}	+	C_2H_6CO	11142	Lifshitz, 72
Hg^{+1}	+	C_3H_8O	11142	Lifshitz, 72
Hg^{+1}	+	C_3H_7OH	11142	Lifshitz, 72
I^-	+	O_2	10044	Vogt, 77
I^-	+	SO_2	9520	Refaey, 76
In	+	Br	14039	Burdett, 79
In	+	Cl	14039	Burdett, 79
In	+	I	14039	Burdett, 79
K	+	Br	14039	Burdett, 79
K	+	Cl	14039	Burdett, 79
K	+	I	14039	Burdett, 79
K	+	Li^{+1}	10228	Wijnaendts, 77
K	+	Mg^{+1}	10216	Zavilopulo, 77
K	+	Na^{+1}	10228	Wijnaendts, 77
K	+	O	13420	Vora, 74
K	+	Br_2	9523	Hubers, 76
			10388	Kashihira, 74
			14997	Baede, 73
			15107	Delvigne, 72
K	+	Cl_2	9523	Hubers, 76
			10388	Kashihira, 74
K	+	ICl	9523	Hubers, 76
K	+	I_2	9523	Hubers, 76
			9619	Aten, 77
			14989	Moutinho, 71
			14997	Baede, 73
			15107	Delvigne, 72
K	+	O_2	10388	Kashihira, 74
			13052	Kleyn, 78
			14984	Moutinho, 71
K	+	NO_2	14753	Okada, 79
K	+	CCl_4	12970	Dispert, 78
K	+	CCl_3F	7934	Lacmann, 75
			12970	Dispert, 78
K	+	CCl_2F_2	12970	Dispert, 78
K	+	CH_3I	14871	Moutinho, 74
K	+	SF_6	11293	Compton, 78
K	+	UF_6	9296	Compton, 77
K^{+1}	+	Ar	8138	Afrosimov, 76
			9092	Odom, 77

K^{+1}	+	K	8261	Riggin, 75
			9100	Wijnaendts, 77
K^{+1}	+	Na	10283	Aquilanti, 74
K^{+1}	+	N_2	12099	Kassal, 71
			14968	Desesquelles, 75
Kr	+	Ar^{+2}	9909	Suk, 77
Kr	+	H	9865	Roussel, 77
			10679	Roussel, 77
			10680	Pradel, 77
Kr	+	H^{*}	9865	Roussel, 77
			10679	Roussel, 77
			10680	Pradel, 77
Kr	+	Li	13010	Bouliou, 78
Kr	+	N^{+1}	10051	Vujovic, 77
Kr^{*}	+	CH_3NO_2	10427	Stockdale, 74
Kr^{*}	+	SF_6	9794	Matsuzawa, 77
Kr^{+1}	+	Ar	12940	Maier II, 78
			15145	Smith, 71
Kr^{+1}	+	Cs	6923	Meyer, 75
Kr^{+1}	+	Hg	13386	Johnsen, 73
Kr^{+1}	+	Kr	10295	Kaiser, 74
			14689	Okuno, 79
			14904	Jones, 70
			14911	Rosenberg, 73
			14940	Hishinuma, 71
			14941	Kimura, 71
			14942	Hishinuma, 72
			14949	Kobayashi, 73
			15145	Smith, 71
			15430	Kikiani, 75
Kr^{+1}	+	Xe	10780	Kikiani, 77
			12940	Maier II, 78
			15145	Smith, 71
Kr^{+1}	+	CO	9145	Latimer, 77
			10306	Laudenslager, 74
			14266	Rothwell Jr., 79
			14906	Derrick, 71
			14949	Kobayashi, 73
			15145	Smith, 71
Kr^{+1}	+	HBr	11061	Tomcho, 72
			13689	Haugh, 70
Kr^{+1}	+	H_2	9145	Latimer, 77
			12624	Smith, 75
Kr^{+1}	+	N_2	9145	Latimer, 77
			11006	Moran, 72
			15145	Smith, 71
Kr^{+1}	+	NO	8844	Collin, 76
			9596	Kobayashi, 77
			10306	Laudenslager, 74
			14951	Kobayashi, 74
			15145	Smith, 71
Kr^{+1}	+	O_2	9145	Latimer, 77

Kr^{+1}	+	O_2	9596	Kobayashi, 77
			10306	Laudenslager, 74
			14909	Adams, 72
			14951	Kobayashi, 74
			15145	Smith, 71
Kr^{+1}	+	CO_2	7169	Harland, 75
			9384	Sim, 76
			10306	Laudenslager, 74
			15145	Smith, 71
Kr^{+1}	+	H_2S	14232	Jowko, 79
Kr^{+1}	+	N_2O	7169	Harland, 75
			10306	Laudenslager, 74
			15013	Sunner, 79
Kr^{+1}	+	C_2H_2	8845	Lehrle, 76
			11142	Lifshitz, 72
			14905	Jones, 71
			15145	Smith, 71
Kr^{+1}	+	NH_3	14232	Jowko, 79
Kr^{+1}	+	CD_4	12527	Bowers, 72
Kr^{+1}	+	CF_4	11340	Smith, 71
			15145	Smith, 71
Kr^{+1}	+	CH_4	10306	Laudenslager, 74
			12527	Bowers, 72
			12528	Gaugehofer, 72
			12613	Ausloos, 75
			13150	Li, 78
			14905	Jones, 71
			15145	Smith, 71
Kr^{+1}	+	SiH_4	12527	Bowers, 72
			12613	Ausloos, 75
Kr^{+1}	+	$C_2H_2Cl_2$	10960	Su, 73
Kr^{+1}	+	$C_2H_2Fl_2$	11053	Bowers, 72
Kr^{+1}	+	C_2H_4	14902	Smith, 70
			14905	Jones, 71
			15145	Smith, 71
Kr^{+1}	+	CD_3OH	11142	Lifshitz, 72
Kr^{+1}	+	CH_3OH	11142	Lifshitz, 72
Kr^{+1}	+	C_2F_6	11340	Smith, 71
			15145	Smith, 71
Kr^{+1}	+	C_2H_6	12527	Bowers, 72
			14905	Jones, 71
			15145	Smith, 71
Kr^{+1}	+	C_3H_6	15145	Smith, 71
Kr^{+1}	+	C_3H_8	12527	Bowers, 72
			14917	Lehrle, 74
			15145	Smith, 71
Kr^{+1}	+	$C_6H_4F_2$	10960	Su, 73
Kr^{+1}	+	C_4H_{10}	15145	Smith, 71
Kr^{+2}	+	Ar	7610	Ast, 75
			14769	Viggiano, 79
			14778	Johnsen, 79
Kr^{+2}	+	H	14688	Nutt, 79

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Kr^{+2}	+	H	15217	McCullough, 79
Kr^{+2}	+	He	7610	Ast, 75
			14778	Johnsen, 79
Kr^{+2}	+	Kr	7610	Ast, 75
			11790	Okuno, 78
			12752	Johnsen, 78
			14689	Okuno, 79
			14769	Viggiano, 79
			14778	Johnsen, 79
Kr^{+2}	+	Ne	7610	Ast, 75
			10422	Maier II, 74
			14718	Koizumi, 79
			14769	Viggiano, 79
			14778	Johnsen, 79
Kr^{+2}	+	Xe	7610	Ast, 75
			14769	Viggiano, 79
			14778	Johnsen, 79
Kr^{+2}	+	H_2	14687	Huber, 79
			14688	Nutt, 79
			15217	McCullough, 79
Kr^{+2}	+	N_2O	15013	Sunner, 79
Kr^{+3}	+	Kr	14689	Okuno, 79
Kr^{+3}	+	H_2	14687	Huber, 79
Kr^{+4}	+	H_2	14687	Huber, 79
Kr^{+5}	+	H_2	14687	Huber, 79
Kr^{+6}	+	H_2	14687	Huber, 79
Kr^{+7}	+	H_2	14687	Huber, 79
Li	+	Br	14039	Burdett, 79
Li	+	Cl	14039	Burdett, 79
Li	+	I	14039	Burdett, 79
Li	+	Br_2	9883	Kimura, 77
			10389	Young, 74
			10829	Kimura, 77
			14997	Baede, 73
			15107	Delvigne, 72
Li	+	Cl_2	9883	Kimura, 77
			10389	Young, 74
Li	+	HBr	10389	Young, 74
Li	+	HCl	10389	Young, 74
Li	+	I_2	14989	Moutinho, 71
			14997	Baede, 73
Li	+	O_2	10389	Young, 74
			14984	Moutinho, 71
Li	+	CH_3I	14871	Moutinho, 74
Li	+	SF_6	10389	Young, 74
Li^{+1}	+	Ar	13602	Barat, 73
Li^{+1}	+	Cs	13712	Perel, 71
Li^{+1}	+	He	13568	Lorents, 72
			13569	Francois, 72
			14661	Tsurubuchi, 79

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Li^{+1}	+	He	15222	Andersen, 73
			15393	Latypov, 71
			15400	Latypov, 73
			15423	Latypov, 72
Li^{+1}	+	K	10283	Aquilanti, 74
			13712	Perel, 71
Li^{+1}	+	Kr	13602	Barat, 73
Li^{+1}	+	Li	9100	Wijnaendts, 77
			14660	Shimakura, 79
			14736	Kita, 79
Li^{+1}	+	Na	7170	Von Busch, 75
			10283	Aquilanti, 74
			11424	Wijnaendts, 78
Li^{+1}	+	Ne	13602	Barat, 73
			15400	Latypov, 73
Li^{+1}	+	Rb	13712	Perel, 71
Li^{+1}	+	Xe	13602	Barat, 73
Li^{+1}	+	H_2	8487	Odom, 76
Li^{+1}	+	N_2	14968	Desesquelles, 75
Mg^{+1}	+	Ar	8263	Fayeton, 76
			15428	Ovchinnikov, 74
Mg^{+1}	+	Cd	13268	Zavilopulo, 72
			15339	Shpenik, 72
Mg^{+1}	+	Cs	12187	Panev, 76
			15399	Zavilopulo, 73
Mg^{+1}	+	H^{+1}	9778	Peart, 77
Mg^{+1}	+	He	15428	Ovchinnikov, 74
Mg^{+1}	+	K	12187	Panev, 76
Mg^{+1}	+	Kr	13530	Cobic, 70
			15428	Ovchinnikov, 74
Mg^{+1}	+	Mg	7613	Panev, 75
			11362	Rutherford, 71
			12936	Pedersen, 78
			15275	Palyukh, 70
Mg^{+1}	+	Na	12187	Panev, 76
Mg^{+1}	+	Ne	7947	Fayeton, 75
			8263	Fayeton, 76
			13434	Andersen, 74
			13530	Cobic, 70
			15428	Ovchinnikov, 74
Mg^{+1}	+	Rb	12187	Panev, 76
			15399	Zavilopulo, 73
Mg^{+1}	+	Xe	15428	Ovchinnikov, 74
Mg^{+1}	+	N_2	13530	Cobic, 70
Mg^{+2}	+	H	14688	Nutt, 79
			15217	McCullough, 79
Mg^{+2}	+	Mg	12936	Pedersen, 78
Mg^{+2}	+	Xe	11035	Spears, 72
Mg^{+2}	+	CO	11035	Spears, 72
Mg^{+2}	+	H_2	14688	Nutt, 79

Mg^{+2}	+	H_2	15217	McCullough,	79
Mg^{+2}	+	NO	11035	Spears,	72
Mg^{+2}	+	O_2	11035	Spears,	72
Mg^{+2}	+	CO_2	11035	Spears,	72
Mg^{+2}	+	N_2O	11035	Spears,	72
Mg^{+2}	+	NO_2	11035	Spears,	72
Mg^{+2}	+	SO_2	11035	Spears,	72
Mg^{+2}	+	NH_3	11035	Spears,	72
N^{+1}	+	Ar	14082	Moran,	79
N^{+1}	+	Ca	11154	Rutherford,	72
N^{+1}	+	Fe	11155	Rutherford,	72
N^{+1}	+	H	9609	Phaneuf,	77
			13952	Nutt,	79
N^{+1}	+	Kr	8429	Rutherford,	75
			9633	Lehmann,	76
N^{+1}	+	Mg	11362	Rutherford,	71
N^{+1}	+	Na	11052	Rutherford,	72
N^{+1}	+	Ne	13434	Andersen,	74
			14677	Thielmann,	79
N^{+1}	+	O	10291	Rutherford,	74
N^{+1}	+	O^-	13669	Aberth,	70
			13709	Peterson,	71
N^{+1}	+	Th	11891	Rutherford,	78
N^{+1}	+	U	11891	Rutherford,	78
N^{+1}	+	CO	8429	Rutherford,	75
			11612	Frobin,	77
			12875	Smith,	78
			13560	Kosmider,	75
			14082	Moran,	79
N^{+1}	+	H_2	12753	Lockwood,	78
			13952	Nutt,	79
			14082	Moran,	79
N^{+1}	+	N_2	7192	Fernandez,	75
			11341	Maier II,	71
			11427	Ottinger,	78
			12457	Murad,	70
			12753	Lockwood,	78
			13560	Kosmider,	75
			14082	Moran,	79
N^{+1}	+	NO	13560	Kosmider,	75
			14082	Moran,	79
N^{+1}	+	O_2	10893	McFarland,	73
			12066	Johnsen,	70
			12875	Smith,	78
			13560	Kosmider,	75
			13561	Birkinshaw,	71
			13997	Rakshit,	78
			14082	Moran,	79
N^{+1}	+	CO_2	12875	Smith,	78
			14082	Moran,	79

N^{+1}	+	H_2O	10316	Howorka,	74
			12875	Smith,	78
N^{+1}	+	H_2S	12875	Smith,	78
N^{+1}	+	N_2O	15013	Sunner,	79
N^{+1}	+	OCS	12875	Smith,	78
N^{+1}	+	H_2CO	12875	Smith,	78
N^{+1}	+	NH_3	12875	Smith,	78
N^{+1}	+	CH_4	12875	Smith,	78
N^{+1}	+	CH_3OH	12875	Smith,	78
N^{+1}	+	CH_3NH_2	12875	Smith,	78
N^{+2}	+	Ar	13551	Hasted,	71
N^{+2}	+	H	9609	Phaneuf,	77
N^{+2}	+	He	11601	Maier II,	78
			13551	Hasted,	71
			14251	Sato,	79
N^{+2}	+	Ne	13551	Hasted,	71
			14251	Sato,	79
N^{+3}	+	H	9609	Phaneuf,	77
N^{+3}	+	H_2	7818	Crandall,	75
			9123	Crandall,	77
N^{+4}	+	H	9609	Phaneuf,	77
N^{+4}	+	H_2	9123	Crandall,	77
N^{+5}	+	H	9609	Phaneuf,	77
N^{+5}	+	H_2	9123	Crandall,	77
Na	+	Br	14039	Burdett,	79
Na	+	Cl	14039	Burdett,	79
Na	+	H^-	14695	Esaulov,	79
Na	+	I	14039	Burdett,	79
			14999	Delvigne,	73
Na	+	Mg^{+1}	10216	Zavilopulo,	77
Na	+	O	13420	Vora,	74
Na	+	Br_2	9523	Hubers,	76
			14997	Baede,	73
Na	+	Cl_2	9523	Hubers,	76
Na	+	ICl	9523	Hubers,	76
Na	+	I_2	9523	Hubers,	76
			9619	Aten,	77
			14989	Moutinho,	71
			14997	Baede,	73
Na	+	O_2	13052	Kleyn,	78
			14984	Moutinho,	71
Na	+	CH_3I	14871	Moutinho,	74
Na	+	IrF_6	11293	Compton,	78
Na	+	MoF_6	11293	Compton,	78
Na	+	PtF_6	11293	Compton,	78
Na	+	ReF_6	11293	Compton,	78
Na	+	SeF_6	11293	Compton,	78

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Na	+	UF_6	9296	Compton, 77
Na	+	WF_6	11293	Compton, 78
Na^{+1}	+	Hg	9410	Aquilanti, 77
Na^{+1}	+	K	10283	Aquilanti, 74
			11248	Anton, 78
Na^{+1}	+	Li	11424	Wijnaendts, 78
Na^{+1}	+	Na	9100	Wijnaendts, 77
			10803	Moruzzi, 77
			11052	Rutherford, 72
			11248	Anton, 78
			13160	Dewangan, 72
Na^{+1}	+	Ne	8854	Latypov, 76
			13167	Tolk, 73
			13434	Andersen, 74
			14281	Olsen, 79
Na^{+1}	+	O^-	13183	Weiner, 70
			13726	Weiner, 71
Na^{+1}	+	CO	8468	Odom, 76
Na^{+1}	+	N_2	8468	Odom, 76
			14968	Desesquelles, 75
Na^{+1}	+	O_2	8468	Odom, 76
Ne	+	Ar^{+2}	9909	Suk, 77
Ne	+	H	9865	Roussel, 77
			10679	Roussel, 77
			10680	Pradel, 77
Ne	+	H^*	9865	Roussel, 77
			10679	Roussel, 77
			10680	Pradel, 77
Ne	+	Li	13010	Bouliou, 78
Ne	+	N^{+1}	10051	Vujovic, 77
Ne^{+1}	+	Ar	10780	Kikiani, 77
			10820	Kaneko, 77
			12752	Johnsen, 78
			12940	Maier II, 78
			14811	Jones, 79
			15145	Smith, 71
Ne^{+1}	+	Ba	11809	Zhukov, 77
Ne^{+1}	+	Ca	11809	Zhukov, 77
Ne^{+1}	+	Cd	15402	Soskida, 75
Ne^{+1}	+	Cs	13413	Meyer, 74
Ne^{+1}	+	He	12940	Maier II, 78
			13188	Tolk, 70
Ne^{+1}	+	Hg	13386	Johnsen, 73
Ne^{+1}	+	Kr	7372	Huber, 75
			10780	Kikiani, 77
			10820	Kaneko, 77
			11798	Johnsen, 78
			13737	Maier II, 72
			15145	Smith, 71
Ne^{+1}	+	Mg	13583	Turner-Smith, 73

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Ne^{+1}	+	Mg	15244	Latush, 73
Ne^{+1}	+	Ne	14904	Jones, 70
			15079	Lavigne, 72
			15430	Kikiani, 75
Ne^{+1}	+	Sr	11809	Zhukov, 77
Ne^{+1}	+	Tl	15279	Ivanov, 73
Ne^{+1}	+	Xe	10780	Kikiani, 77
			11798	Johnsen, 78
			13737	Maier II, 72
			15145	Smith, 71
Ne^{+1}	+	Zn	14352	Kartazaev, 78
			14923	Collins, 71
			15402	Soskida, 75
Ne^{+1}	+	CO	10306	Laudenslager, 74
			13981	Rakshit, 79
			14906	Derrick, 71
			15145	Smith, 71
			15334	Gusev, 71
			15386	Polyakova, 70
Ne^{+1}	+	HBr	10482	Haugh, 73
Ne^{+1}	+	HCl	10482	Haugh, 73
Ne^{+1}	+	N_2	10306	Laudenslager, 74
			10980	Albritton, 73
			11134	Saban, 72
			11797	Chen, 77
			13981	Rakshit, 79
			14968	Desesquelles, 75
			15145	Smith, 71
Ne^{+1}	+	NO	10306	Laudenslager, 74
			13981	Rakshit, 79
			15145	Smith, 71
Ne^{+1}	+	O_2	10306	Laudenslager, 74
			13981	Rakshit, 79
			14909	Adams, 72
			15145	Smith, 71
Ne^{+1}	+	CO_2	6984	Bregman-Reisler, 75
			9384	Sim, 76
			10306	Laudenslager, 74
			10392	Haugh, 74
			13981	Rakshit, 79
			15145	Smith, 71
Ne^{+1}	+	H_2O	10818	Marx, 77
			11503	Mauclaire, 78
			13981	Rakshit, 79
Ne^{+1}	+	N_2O	9144	Bearman, 77
			10306	Laudenslager, 74
			13962	Myers, 79
			13981	Rakshit, 79
			15013	Sunner, 79
Ne^{+1}	+	OCS	13981	Rakshit, 79
Ne^{+1}	+	SO_2	13981	Rakshit, 79
Ne^{+1}	+	C_2D_2	14905	Jones, 71

Ne^{+1}	+	C_2H_2	8845	Lehrle, 76
			14905	Jones, 71
			15145	Smith, 71
Ne^{+1}	+	NH_3	13981	Rakshit, 79
Ne^{+1}	+	CD_4	12527	Bowers, 72
Ne^{+1}	+	CF_4	11340	Smith, 71
			15145	Smith, 71
Ne^{+1}	+	CH_3Cl	13981	Rakshit, 79
Ne^{+1}	+	CH_4	10306	Laudenslager, 74
			12527	Bowers, 72
			12528	Gaugehofer, 72
			12613	Ausloos, 75
			13981	Rakshit, 79
			14905	Jones, 71
			15145	Smith, 71
Ne^{+1}	+	SiH_4	12527	Bowers, 72
Ne^{+1}	+	$C_2H_2Cl_2$	10960	Su, 73
Ne^{+1}	+	$C_2H_2Fl_2$	11053	Bowers, 72
Ne^{+1}	+	C_2H_4	13981	Rakshit, 79
			14902	Smith, 70
			15145	Smith, 71
Ne^{+1}	+	C_2F_6	11340	Smith, 71
			15145	Smith, 71
Ne^{+1}	+	C_2H_6	12527	Bowers, 72
			15145	Smith, 71
Ne^{+1}	+	C_3H_6	15145	Smith, 71
Ne^{+1}	+	C_3H_8	12527	Bowers, 72
			15145	Smith, 71
Ne^{+1}	+	$C_6H_4F_2$	10960	Su, 73
Ne^{+1}	+	C_4H_{10}	15145	Smith, 71
Ne^{+2}	+	Ar	7610	Ast, 75
			11601	Maier II, 78
			14719	Johnsen, 79
			14778	Johnsen, 79
Ne^{+2}	+	He	7610	Ast, 75
			11601	Maier II, 78
			12752	Johnsen, 78
			14719	Johnsen, 79
Ne^{+2}	+	Kr	7610	Ast, 75
			10422	Maier II, 74
Ne^{+2}	+	Ne	7610	Ast, 75
			11601	Maier II, 78
			12752	Johnsen, 78
Ne^{+2}	+	Xe	7610	Ast, 75
O	+	Ar^{+1}	9823	Gaucherel, 77
O	+	Cs	14282	Nagata, 79
O	+	K	14282	Nagata, 79
O	+	Na	14282	Nagata, 79
O	+	O^-	10291	Rutherford, 74
O	+	O_2^-	10291	Rutherford, 74

O	+	$C_2H_2^-$	10253	Lindinger, 75
O^{+1}	+	Ar	10800	Matic, 77
			11355	Hughes, 71
			12204	Moran, 78
			14678	Matic, 79
O^{+1}	+	Ca	11154	Rutherford, 72
O^{+1}	+	Cs	14282	Nagata, 79
O^{+1}	+	Fe	11155	Rutherford, 72
O^{+1}	+	H	10949	Phaneuf, 77
O^{+1}	+	K	14282	Nagata, 79
O^{+1}	+	Kr	9633	Lehmann, 76
			11355	Hughes, 71
			13207	Vujovic, 71
			14678	Matic, 79
O^{+1}	+	N	15207	Torr, 79
O^{+1}	+	Na	11052	Rutherford, 72
			14282	Nagata, 79
O^{+1}	+	Ne	13434	Andersen, 74
O^{+1}	+	O	9141	Carlson, 77
			10291	Rutherford, 74
O^{+1}	+	O^-	13709	Peterson, 71
O^{+1}	+	Th	11891	Rutherford, 78
O^{+1}	+	U	11891	Rutherford, 78
O^{+1}	+	Xe	14678	Matic, 79
O^{+1}	+	CO	10983	Murad, 73
			11355	Hughes, 71
			12204	Moran, 78
			12529	Murad, 72
			13512	Glosik, 78
			13560	Kosmider, 75
			14906	Derrick, 71
O^{+1}	+	H_2	10949	Phaneuf, 77
			12204	Moran, 78
			12753	Lockwood, 78
			13952	Nutt, 79
O^{+1}	+	N_2	10800	Matic, 77
			10893	McFarland, 73
			11086	Torr, 77
			11355	Hughes, 71
			11400	Rutherford, 71
			11427	Ottinger, 78
			12204	Moran, 78
			12753	Lockwood, 78
			13019	Torr, 78
			13512	Glosik, 78
			14952	Kaneko, 74
O^{+1}	+	NO	12204	Moran, 78
			13512	Glosik, 78
			13560	Kosmider, 75
			14932	Graham IV,
O^{+1}	+	O_2	10575	Johnsen, 73

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O^{+1}	+	O_2	10893	McFarland, 73
			12204	Moran, 78
			12264	Chen, 78
			12875	Smith, 78
			13512	Glosik, 78
			13560	Kosmider, 75
			13681	Varney, 70
			13997	Rakshit, 78
			14243	Mauclaire, 79
O^{+1}	+	CO_2	7852	Vroom, 75
			11355	Hughes, 71
			11929	Mosesman, 70
			12066	Johnsen, 70
			12074	Schildcrout, 70
			12204	Moran, 78
O^{+1}	+	H_2O	12875	Smith, 78
O^{+1}	+	H_2S	8868	Liddy, 75
			12875	Smith, 78
O^{+1}	+	N_2O	11131	Ryan, 72
			15013	Sunner, 79
O^{+1}	+	OCS	12875	Smith, 78
O^{+1}	+	H_2CO	12875	Smith, 78
O^{+1}	+	NH_3	12875	Smith, 78
O^{+1}	+	CH_4	12875	Smith, 78
O^{+1}	+	CH_3OH	12875	Smith, 78
O^{+1}	+	CH_3NH_2	12875	Smith, 78
O^{+2}	+	H	10949	Phaneuf, 77
O^{+2}	+	He	8209	Makhdis, 76
			11601	Maier II, 78
O^{+2}	+	H_2	10949	Phaneuf, 77
O^{+2}	+	N_2	12963	Johnsen, 78
O^{+2}	+	O_2	12963	Johnsen, 78
O^{+3}	+	H	10949	Phaneuf, 77
O^{+3}	+	H_2	9123	Crandall, 77
			10949	Phaneuf, 77
O^{+4}	+	H	10949	Phaneuf, 77
O^{+4}	+	H_2	9123	Crandall, 77
			10949	Phaneuf, 77
O^{+5}	+	H	10949	Phaneuf, 77
O^{+5}	+	H_2	9123	Crandall, 77
			10949	Phaneuf, 77
O^{+6}	+	H_2	9123	Crandall, 77
Rb	+	Br	14039	Burdett, 79
Rb	+	Cl	14039	Burdett, 79
Rb	+	D^{+1}	10213	Girnius, 77
Rb	+	I	14039	Burdett, 79
Rb	+	Mg^{+1}	10216	Zavilopulo, 77
Rb	+	O	13420	Vora, 74
S	+	Cs	14282	Nagata, 79

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S	+	K	14282	Nagata, 79
S	+	Na	14282	Nagata, 79
S^{+1}	+	Cs	14282	Nagata, 79
S^{+1}	+	K	14282	Nagata, 79
S^{+1}	+	Kr	9633	Lehmann, 76
S^{+1}	+	Na	14282	Nagata, 79
S^{+1}	+	NO	14783	Dotan, 79
S^{+1}	+	H_2S	8868	Liddy, 75
S^{+1}	+	NH_3	8868	Liddy, 75
Sc	+	SF_6	5884	Compton, 73
Sc	+	TeF_6	5884	Compton, 73
Sr^{+1}	+	Ar	7750	Zapesochnyi, 75
			12235	Ovchinnikov, 77
Sr^{+1}	+	Kr	7750	Zapesochnyi, 75
			12235	Ovchinnikov, 77
Sr^{+1}	+	Sr	7613	Panev, 75
			15452	Gaev, 74
Sr^{+1}	+	Xe	7750	Zapesochnyi, 75
Ti	+	O_2	12545	Cohen, 73
Ti^{+2}	+	H	11403	Nutt, 78
			14688	Nutt, 79
Ti^{+2}	+	H_2	11403	Nutt, 78
			14688	Nutt, 79
Tl	+	Br	14039	Burdett, 79
Tl	+	Cl	14039	Burdett, 79
Tl	+	I	14039	Burdett, 79
Tl^{+2}	+	H	15217	McCullough, 79
Tl^{+2}	+	H_2	15217	McCullough, 79
U	+	O_2	7657	Young, 76
Xe	+	D	8466	Morgan, 76
Xe	+	D^-	8466	Morgan, 76
Xe	+	H	8466	Morgan, 76
			9865	Roussel, 77
			10679	Roussel, 77
			10680	Pradel, 77
Xe	+	H^-	8466	Morgan, 76
			10458	Harnois, 77
Xe	+	H^*	9865	Roussel, 77
			10679	Roussel, 77
			10680	Pradel, 77
Xe	+	Li	13010	Bouliou, 78
Xe	+	N^{+1}	10051	Vujovic, 77
Xe^*	+	SF_6	9765	Foltz, 77
Xe^{+1}	+	Ar	15145	Smith, 71
Xe^{+1}	+	Ca	11915	Butterfield, 78
Xe^{+1}	+	Cs	6923	Meyer, 75
Xe^{+1}	+	Hg	13386	Johnsen, 73

Xe^{+1}	+	Kr	15145	Smith, 71
Xe^{+1}	+	Sr	11915	Butterfield, 78
Xe^{+1}	+	Xe	8860	Squires, 76
			14689	Okuno, 79
			14940	Hishinuma, 71
			14941	Kimura, 71
			14942	Hishinuma, 72
			14944	Hishinuma, 72
			15145	Smith, 71
			15430	Kikiani, 75
Xe^{+1}	+	CO	9145	Latimer, 77
			15145	Smith, 71
Xe^{+1}	+	H_2	9145	Latimer, 77
Xe^{+1}	+	N_2	9145	Latimer, 77
			11006	Moran, 72
			12099	Kassal, 71
			15145	Smith, 71
Xe^{+1}	+	NO	10306	Laudenslager, 74
			15145	Smith, 71
Xe^{+1}	+	O_2	8856	Ajello, 76
			9145	Latimer, 77
			10306	Laudenslager, 74
			14909	Adams, 72
			14944	Hishinuma, 72
			15145	Smith, 71
Xe^{+1}	+	CO_2	15145	Smith, 71
Xe^{+1}	+	H_2S	14232	Jowko, 79
Xe^{+1}	+	N_2O	10306	Laudenslager, 74
			15013	Sunner, 79
Xe^{+1}	+	C_2H_2	8845	Lehrle, 76
			11142	Lifshitz, 72
			15145	Smith, 71
Xe^{+1}	+	NH_3	14232	Jowko, 79
Xe^{+1}	+	CD_4	12527	Bowers, 72
Xe^{+1}	+	CH_4	10306	Laudenslager, 74
			12527	Bowers, 72
			15145	Smith, 71
Xe^{+1}	+	SiH_4	12527	Bowers, 72
			12613	Ausloos, 75
Xe^{+1}	+	$C_2H_2Cl_2$	10960	Su, 73
Xe^{+1}	+	$C_2H_2Fl_2$	11053	Bowers, 72
Xe^{+1}	+	C_2H_4	14902	Smith, 70
			15145	Smith, 71
Xe^{+1}	+	CH_3OH	11142	Lifshitz, 72
Xe^{+1}	+	C_2F_6	11340	Smith, 71
			15145	Smith, 71
Xe^{+1}	+	C_2H_6	10295	Kaiser, 74
			12527	Bowers, 72
			15145	Smith, 71
Xe^{+1}	+	C_3H_6	15145	Smith, 71
Xe^{+1}	+	C_2H_6CO	11142	Lifshitz, 72
Xe^{+1}	+	C_3H_8	12527	Bowers, 72
			14917	Lehrle, 74
			15145	Smith, 71
Xe^{+1}	+	$C_6H_4F_2$	10960	Su, 73
Xe^{+1}	+	C_4H_{10}	15145	Smith, 71
Xe^{+2}	+	Ar	7610	Ast, 75
			13954	Adams, 79
			14769	Viggiano, 79
			14778	Johnsen, 79
Xe^{+2}	+	Kr	7610	Ast, 75
			14769	Viggiano, 79
			14778	Johnsen, 79
Xe^{+2}	+	Ne	14769	Viggiano, 79
			14778	Johnsen, 79
Xe^{+2}	+	Xe	7610	Ast, 75
			11790	Okuno, 78
			12752	Johnsen, 78
			13954	Adams, 79
			14689	Okuno, 79
			14769	Viggiano, 79
			14778	Johnsen, 79
Xe^{+2}	+	CO	14906	Derrick, 71
Xe^{+2}	+	H_2	13954	Adams, 79
Xe^{+2}	+	N_2	13954	Adams, 79
Xe^{+2}	+	O_2	13954	Adams, 79
Xe^{+2}	+	CO_2	13954	Adams, 79
Xe^{+2}	+	N_2O	15013	Sunner, 79
Zn^{+1}	+	Cd	13253	Shpenik, 70
			15331	Shpenik, 71
Zn^{+1}	+	Na	13253	Shpenik, 70
Zn^{+1}	+	Zn	13253	Shpenik, 70
Zn^{+2}	+	H	14688	Nutt, 79
			15217	McCullough, 79
Zn^{+2}	+	H_2	14688	Nutt, 79
			15217	McCullough, 79
Ar_2^{+1}	+	Xe	7233	Maier II, 75
Br_2	+	Br^-	5794	Hughes, 73
			11347	Chupka, 71
Br_2	+	I^-	5794	Hughes, 73
			11347	Chupka, 71
Br_2	+	K	13482	Kimura, 78
Br_2	+	Cl_2^-	5794	Hughes, 73
CN^{+1}	+	C_6H_6	14787	Tedder, 79
CO	+	Ar	10099	Anicich, 77
CO	+	He^{+1}	9874	Chen, 77
CO	+	I^-	8150	Refaey, 76
CO^{+1}	+	Ar	15145	Smith, 71
CO^{+1}	+	D	14792	Karpas, 79
CO^{+1}	+	Kr	14949	Kobayashi, 73

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CO^{+1}	+	Kr	15145	Smith, 71
CO^{+1}	+	O	11036	Fehsenfeld, 72
CO^{+1}	+	Xe	15145	Smith, 71
CO^{+1}	+	CO	6972	Chiu, 75
			10295	Kaiser, 74
			10880	Flannery, 73
			11606	Utterback, 78
			14911	Rosenberg, 73
			14955	Kobayashi, 75
			15145	Smith, 71
CO^{+1}	+	H_2	15145	Smith, 71
CO^{+1}	+	NO	11036	Fehsenfeld, 72
			14953	Kobayashi, 74
			15145	Smith, 71
CO^{+1}	+	O_2	12074	Schildcrout, 70
			14953	Kobayashi, 74
			15145	Smith, 71
CO^{+1}	+	CO_2	10295	Kaiser, 74
			12074	Schildcrout, 70
			15145	Smith, 71
CO^{+1}	+	H_2O	12986	Karpas, 78
CO^{+1}	+	H_2S	8868	Liddy, 75
			14232	Jowko, 79
CO^{+1}	+	N_2O	15013	Sunner, 79
CO^{+1}	+	SO_2	8868	Liddy, 75
CO^{+1}	+	C_2H_2	15145	Smith, 71
CO^{+1}	+	NH_3	14232	Jowko, 79
CO^{+1}	+	CF_4	15145	Smith, 71
CO^{+1}	+	CH_4	11606	Utterback, 78
			12528	Gaugehofer, 72
			15145	Smith, 71
CO^{+1}	+	SiH_4	12527	Bowers, 72
			12613	Ausloos, 75
CO^{+1}	+	C_2F_6	11340	Smith, 71
			15145	Smith, 71
CO^{+1}	+	C_3H_8	14917	Lehrle, 74
CO^{+1}	+	C_6H_6	14787	Tedder, 79
CS	+	Br_2	10260	Tang, 75
CS	+	Cl_2	10260	Tang, 75
CS	+	I_2	10260	Tang, 75
CS^{+1}	+	C_6H_6	14787	Tedder, 79
Cl_2	+	Br^-	11347	Chupka, 71
			15422	Dimov, 72
Cl_2	+	Cl^-	5794	Hughes, 73
			15422	Dimov, 72
Cl_2	+	I^-	5794	Hughes, 73
			11347	Chupka, 71
			15422	Dimov, 72
Cl_2	+	K	9781	Mochizuki, 77
Cl_2	+	K	13482	Kimura, 78
Cl_2	+	Cl_2^-	15422	Dimov, 72
Cl_2	+	I_2^-	5794	Hughes, 73
Cl_2	+	SH^-	5794	Hughes, 73
			12516	Dunkin, 72
Cl_2	+	NO_2^-	5794	Hughes, 73
			12516	Dunkin, 72
Cl_2^-	+	I_2^-	15422	Dimov, 72
D_2^{+1}	+	Ar	11019	Sen Sharma, 72
D_2^{+1}	+	Cs	6922	Meyer, 75
			7805	Anderson, 75
D_2^{+1}	+	Xe	8466	Morgan, 76
			8467	Graham, 76
D_2^{+1}	+	D_2	10300	Rothwell Jr., 74
			11019	Sen Sharma, 72
F_2	+	Br^-	11347	Chupka, 71
F_2	+	F^-	11347	Chupka, 71
HCl^{+1}	+	C_6H_6	14787	Tedder, 79
HD^{+1}	+	D	10404	Krenos, 74
H_2	+	Ar^{+1}	9889	Hierl, 77
			10143	Hodge Jr., 77
H_2	+	H	7787	Roussel, 75
			9865	Roussel, 77
			10679	Roussel, 77
			10680	Pradel, 77
			15069	Hill, 79
H_2	+	$H^{\cdot}$	9865	Roussel, 77
			10679	Roussel, 77
			10680	Pradel, 77
			15069	Hill, 79
H_2	+	He^{+1}	9886	Olson, 77
			10143	Hodge Jr., 77
H_2	+	He^{+2}	9886	Olson, 77
			10223	Shah, 78
H_2	+	D_2^-	11242	Schnitzer, 78
H_2^{+1}	+	Ar	11019	Sen Sharma, 72
			14916	Milner, 74
			15145	Smith, 71
H_2^{+1}	+	Cs	7722	Meyer, 75
			7805	Anderson, 75
H_2^{+1}	+	Kr	14916	Milner, 74
			15145	Smith, 71
H_2^{+1}	+	Mg	13740	Morgan, 72
H_2^{+1}	+	Ne	14916	Milner, 74
H_2^{+1}	+	Xe	8466	Morgan, 76
			8467	Graham, 76
			14916	Milner, 74
			15145	Smith, 71
H_2^{+1}	+	CO	12196	Parker, 78
			15145	Smith, 71

H_2^{+1}	+	H_2	8467	Graham, 76
			11019	Sen Sharma, 72
			14916	Milner, 74
			15145	Smith, 71
			15189	Hess, 72
H_2^{+1}	+	N_2	14916	Milner, 74
			15145	Smith, 71
H_2^{+1}	+	NO	15145	Smith, 71
H_2^{+1}	+	O_2	15145	Smith, 71
H_2^{+1}	+	CO_2	6984	Bregman-Reisler, 75
			12059	Coplan, 70
			12593	Bregman-Reisler, 74
			15145	Smith, 71
H_2^{+1}	+	H_2O	12059	Coplan, 70
			13536	Dagnac, 70
			13996	Parker, 79
H_2^{+1}	+	N_2O	9144	Bearman, 77
H_2^{+1}	+	C_2H_2	15145	Smith, 71
H_2^{+1}	+	NH_3	9096	Parker, 77
			12059	Coplan, 70
H_2^{+1}	+	CF_4	15145	Smith, 71
H_2^{+1}	+	CH_4	6928	Milner, 75
			15145	Smith, 71
H_2^{+1}	+	C_2H_4	15145	Smith, 71
H_2^{+1}	+	C_2F_6	11340	Smith, 71
			15145	Smith, 71
He_2^{*}	+	Ar	11468	Lee, 78
He_2^{+1}	+	Ar	7233	Maier II, 75
			8416	Lee, 76
			11240	Collins, 78
He_2^{+1}	+	Cd	11115	Ranjbar, 77
He_2^{+1}	+	He	12219	Myers, 78
He_2^{+1}	+	Kr	7233	Maier II, 75
			11240	Collins, 78
He_2^{+1}	+	Ne	7233	Maier II, 75
			8416	Lee, 76
			12219	Myers, 78
He_2^{+1}	+	Xe	7233	Maier II, 75
He_2^{+1}	+	CO	8118	Bearman, 76
			8416	Lee, 76
			10274	Piper, 75
He_2^{+1}	+	HBr	11240	Collins, 78
He_2^{+1}	+	HCl	11240	Collins, 78
He_2^{+1}	+	H_2	11240	Collins, 78
			12219	Myers, 78
He_2^{+1}	+	N_2	6924	Leventhal, 75
			8118	Bearman, 76
			8416	Lee, 76
			10274	Piper, 75
He_2^{+1}	+	NO	8118	Bearman, 76
He_2^{+1}	+	NO	11240	Collins, 78
He_2^{+1}	+	O_2	8118	Bearman, 76
			11240	Collins, 78
			12219	Myers, 78
He_2^{+1}	+	CO_2	7907	Bearman, 76
			8416	Lee, 76
He_2^{+1}	+	H_2O	11240	Collins, 78
He_2^{+1}	+	N_2O	11240	Collins, 78
He_2^{+1}	+	NO_2	11240	Collins, 78
He_2^{+1}	+	NH_3	11240	Collins, 78
He_2^{+1}	+	CCl_2F_2	11240	Collins, 78
He_2^{+1}	+	CH_4	8416	Lee, 76
He_2^{+1}	+	C_3H_8	11240	Collins, 78
HgI^{*}	+	Ar	14001	Eden, 79
HgI^{*}	+	Hg	14001	Eden, 79
HgI^{*}	+	Xe	14001	Eden, 79
HgI^{*}	+	HgI	14001	Eden, 79
HgI^{*}	+	N_2	14001	Eden, 79
HgI^{*}	+	HgI_2	14001	Eden, 79
HgI^{*}	+	CF_3I	14001	Eden, 79
I_2	+	Br^-	5794	Hughes, 73
			11347	Chupka, 71
			15422	Dimov, 72
I_2	+	Cl^-	5794	Hughes, 73
			15422	Dimov, 72
I_2	+	Cs	9611	Aten, 77
I_2	+	I^-	5794	Hughes, 73
			11347	Chupka, 71
			15422	Dimov, 72
I_2	+	K	9611	Aten, 77
I_2	+	Na	9611	Aten, 77
I_2	+	Br_2^-	15422	Dimov, 72
I_2	+	Cl_2^-	5794	Hughes, 73
			15422	Dimov, 72
I_2	+	I_2^-	15422	Dimov, 72
I_2	+	SH^-	5794	Hughes, 73
K_2	+	I	14989	Moutinho, 71
K_2	+	I_2	14989	Moutinho, 71
Li_2	+	I	14989	Moutinho, 71
Li_2	+	I_2	14989	Moutinho, 71
N_2	+	Ar^{+1}	9823	Gaucherel, 77
			10099	Anicich, 77
			10143	Hodge Jr., 77
			11318	Kelley, 78
N_2	+	H^-	10458	Harnois, 77
			10833	Risley, 77
N_2	+	H^{*}	13575	Dose, 72
N_2	+	H^{+1}	10132	Hughes, 77

N_2	+	He^{+1}	9793	Bowers,	77
			9873	Govers,	77
			9874	Chen,	77
			10096	Johnsen,	77
			10099	Anicich,	77
			10143	Hodge Jr.,	77
N_2	+	He_2^{+1}	9874	Chen,	77
N_2	+	NO	14953	Kobayashi,	74
N_2^{+1}	+	Ar	10295	Kaiser,	74
			14901	Fromont,	70
			14911	Rosenberg,	73
			15145	Smith,	71
N_2^{+1}	+	Ca	11154	Rutherford,	72
N_2^{+1}	+	D	14792	Karpas,	79
N_2^{+1}	+	Fe	11155	Rutherford,	72
N_2^{+1}	+	K	12093	Salop,	71
N_2^{+1}	+	Kr	13692	Liu,	70
			15145	Smith,	71
N_2^{+1}	+	Mg	11362	Rutherford,	71
N_2^{+1}	+	N	13724	Mark,	71
N_2^{+1}	+	Na	11052	Rutherford,	72
N_2^{+1}	+	O	10291	Rutherford,	74
N_2^{+1}	+	Th	11891	Rutherford,	78
N_2^{+1}	+	U	11891	Rutherford,	78
N_2^{+1}	+	Xe	15145	Smith,	71
N_2^{+1}	+	CO	12875	Smith,	78
			13692	Liu,	70
			14953	Kobayashi,	74
N_2^{+1}	+	H_2	15145	Smith,	71
N_2^{+1}	+	N_2	6972	Chiu,	75
			10295	Kaiser,	74
			10880	Flannery,	73
			11338	Huntress Jr.,	71
			11606	Utterback,	78
			11953	Tiernan,	70
			12085	Dunbar,	71
			14901	Fromont,	70
			14911	Rosenberg,	73
			14955	Kobayashi,	75
			15079	Lavigne,	72
			15145	Smith,	71
N_2^{+1}	+	NO	11953	Tiernan,	70
N_2^{+1}	+	O_2	10821	Hasted,	77
			10893	McFarland,	73
			12066	Johnsen,	70
			12875	Smith,	78
			14953	Kobayashi,	74
			15145	Smith,	71
N_2^{+1}	+	O_2^-	13669	Aberth,	70
			13709	Peterson,	71
N_2^{+1}	+	CO_2	6984	Bregman-Reisler,	75

N_2^{+1}	+	CO_2	7169	Harland,	75
			12875	Smith,	78
			13692	Liu,	70
			15145	Smith,	71
N_2^{+1}	+	H_2O	10316	Howorka,	74
			12875	Smith,	78
			12986	Karpas,	78
N_2^{+1}	+	H_2S	12875	Smith,	78
			14232	Jowko,	79
N_2^{+1}	+	N_2O	7169	Harland,	75
			11131	Ryan,	72
			13692	Liu,	70
N_2^{+1}	+	OCS	12875	Smith,	78
N_2^{+1}	+	C_2H_2	15145	Smith,	71
N_2^{+1}	+	H_2CO	12875	Smith,	78
N_2^{+1}	+	H_2O_2	7316	Lindinger,	75
N_2^{+1}	+	NH_3	12875	Smith,	78
			14232	Jowko,	79
N_2^{+1}	+	CD_4	13150	Li,	78
N_2^{+1}	+	CF_4	11340	Smith,	71
			15145	Smith,	71
N_2^{+1}	+	CH_4	11606	Utterback,	78
			12528	Gaugehofer,	72
			12613	Ausloos,	75
			15145	Smith,	71
N_2^{+1}	+	SiH_4	12527	Bowers,	72
			12613	Ausloos,	75
N_2^{+1}	+	CH_3OH	12875	Smith,	78
N_2^{+1}	+	CH_3NH_2	12875	Smith,	78
N_2^{+1}	+	C_2F_6	11340	Smith,	71
			15145	Smith,	71
N_2^{+1}	+	C_6H_6	14787	Tedder,	79
NO	+	Ar	10099	Anicich,	77
NO	+	I^-	11348	Berkowitz,	71
NO	+	NO^-	6972	Chiu,	75
NO^{+1}	+	Ar	11953	Tiernan,	70
			13512	Glosik,	78
			14910	Thean,	73
NO^{+1}	+	Br^-	11246	Burdett,	78
NO^{+1}	+	Ca	11154	Rutherford,	72
NO^{+1}	+	Cl^-	11246	Burdett,	78
NO^{+1}	+	Fe	11155	Rutherford,	72
NO^{+1}	+	I^-	11246	Burdett,	78
NO^{+1}	+	Kr	14910	Thean,	73
NO^{+1}	+	Mg	11362	Rutherford,	71
NO^{+1}	+	Na	11052	Rutherford,	72
NO^{+1}	+	Ne	14910	Thean,	73
NO^{+1}	+	Xe	14910	Thean,	73
NO^{+1}	+	CO	13512	Glosik,	78

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NO^{+1}	+	CO	13560	Kosmider,	75
NO^{+1}	+	H_2	13512	Glosik,	78
NO^{+1}	+	N_2	13512	Glosik,	78
NO^{+1}	+	NO	8860	Squires,	76
			10318	Moran,	74
			14910	Thean,	73
			14911	Rosenberg,	73
			15079	Lavigne,	72
			15145	Smith,	71
NO^{+1}	+	O_2	13512	Glosik,	78
			13560	Kosmider,	75
			15145	Smith,	71
NO^{+1}	+	NO_2^-	13709	Peterson,	71
NO^{+1}	+	C_2H_2	15145	Smith,	71
NO^{+1}	+	CH_4	15145	Smith,	71
NO^{+1}	+	C_2H_4	15145	Smith,	71
NO^{+1}	+	CH_3NH_2	12875	Smith,	78
NO^{+1}	+	C_6H_5Br	10879	Bregman-Reisler,	73
NO^{+1}	+	C_6H_5Cl	10879	Bregman-Reisler,	73
NO^{+1}	+	C_6H_5F	10879	Bregman-Reisler,	73
NO^{+1}	+	C_6H_6	10879	Bregman-Reisler,	73
			14787	Tedder,	79
NO^{+1}	+	C_6H_5I	10879	Bregman-Reisler,	73
Na_2	+	I	14989	Moutinho,	71
Na_2	+	I_2	14989	Moutinho,	71
Ne_2^{+1}	+	N_2	11797	Chen,	77
OH	+	O_3^-	15444	Lifshitz,	77
OH^{+1}	+	NO	12987	Karpas,	78
OH^{+1}	+	O_2	12987	Karpas,	78
OH^{+1}	+	H_2O	12075	Ryan,	70
OH^{+1}	+	H_2S	12987	Karpas,	78
OH^{+1}	+	N_2O	12987	Karpas,	78
OH^{+1}	+	H_2CO	12987	Karpas,	78
OH^{+1}	+	CD_4	12987	Karpas,	78
OH^{+1}	+	CD_3OH	11142	Lifshitz,	72
OH^{+1}	+	C_2H_6	11142	Lifshitz,	72
OH^{+1}	+	C_2H_6CO	11142	Lifshitz,	72
OH^{+1}	+	C_6H_6	14787	Tedder,	79
O_2	+	Ar	10099	Anicich,	77
O_2	+	Ar^{+1}	9823	Gaucherel,	77
			9894	Lindinger,	77
O_2	+	Ar^{+2}	9894	Lindinger,	77
O_2	+	Br^-	15422	Dimov,	72
O_2	+	C^-	12070	Paulson,	70

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O_2	+	Cl^-	7733	Vogt,	75
			15422	Dimov,	72
O_2	+	D^-	15219	Vogt,	70
O_2	+	H^-	11934	Dunkin,	70
			12015	Bailey,	70
			15219	Vogt,	70
O_2	+	$H^{\bullet}$	13575	Dose,	72
O_2	+	H^{+1}	11318	Kelley,	78
O_2	+	He^{+1}	10096	Johnsen,	77
O_2	+	I^-	8150	Refaey,	76
			11348	Berkowitz,	71
			15422	Dimov,	72
O_2	+	O^-	5227	Kinsman,	70
			7733	Vogt,	75
			9136	Vogt,	77
			10305	Mathis,	74
			12015	Bailey,	70
			13681	Varney,	70
			13685	McKnight,	70
			13698	Snuggs,	71
			15422	Dimov,	72
O_2	+	OH^-	12015	Bailey,	70
O_2	+	O_2^-	6972	Chiu,	75
			12015	Bailey,	70
			13681	Varney,	70
O_2	+	SO^-	15219	Vogt,	70
O_2^{+1}	+	Ar	10279	Lindinger,	75
			12577	Cosby,	74
			13229	Fehsenfeld,	73
			13512	Glosik,	78
			14915	Thean,	74
			15145	Smith,	71
O_2^{+1}	+	Ca	11154	Rutherford,	72
O_2^{+1}	+	Fe	11155	Rutherford,	72
O_2^{+1}	+	Kr	14915	Thean,	74
			15145	Smith,	71
O_2^{+1}	+	Mg	11362	Rutherford,	71
O_2^{+1}	+	Na	11052	Rutherford,	72
O_2^{+1}	+	Ne	14915	Thean,	74
O_2^{+1}	+	Xe	8856	Ajello,	76
			14915	Thean,	74
			15145	Smith,	71
O_2^{+1}	+	CO	10279	Lindinger,	75
			13512	Glosik,	78
			15145	Smith,	71
O_2^{+1}	+	H_2	13512	Glosik,	78
O_2^{+1}	+	N_2	10279	Lindinger,	75
			13512	Glosik,	78
			15145	Smith,	71
O_2^{+1}	+	NO	12066	Johnsen,	70
			13512	Glosik,	78

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O_2^{+1}	+	NO	14933	Lindinger,	75
			14953	Kobayashi,	74
			15145	Smith,	71
O_2^{+1}	+	O_2	6972	Chiu,	75
			10318	Moran,	74
			11923	Baer,	78
			13512	Glosik,	78
			13681	Varney,	70
			14915	Thean,	74
			14955	Kobayashi,	75
			15079	Lavigne,	72
			15145	Smith,	71
O_2^{+1}	+	O_2^-	13669	Aberth,	70
			13709	Peterson,	71
O_2^{+1}	+	CO_2	10279	Lindinger,	75
			15145	Smith,	71
O_2^{+1}	+	H_2S	8868	Liddy,	75
			12875	Smith,	78
O_2^{+1}	+	N_2O	15013	Sunner,	79
O_2^{+1}	+	NO_2^-	13709	Peterson,	71
O_2^{+1}	+	OCS	12875	Smith,	78
O_2^{+1}	+	C_2H_2	15145	Smith,	71
O_2^{+1}	+	H_2CO	12875	Smith,	78
O_2^{+1}	+	H_2O_2	7316	Lindinger,	75
O_2^{+1}	+	NH_3	12875	Smith,	78
O_2^{+1}	+	CF_4	11340	Smith,	71
			15145	Smith,	71
O_2^{+1}	+	CH_4	12528	Gaugehofer,	72
			12613	Ausloos,	75
			13966	Lindinger,	79
			15145	Smith,	71
O_2^{+1}	+	C_2H_4	15145	Smith,	71
O_2^{+1}	+	CH_3OH	12875	Smith,	78
O_2^{+1}	+	CH_3NH_2	12875	Smith,	78
O_2^{+1}	+	C_2F_6	15145	Smith,	71
			15145	Smith,	71
O_2^{+1}	+	C_6H_6	14787	Tedder,	79
O_2^{+2}	+	CO	13512	Glosik,	78
O_2^{+2}	+	N_2	13512	Glosik,	78
SO^{+1}	+	NH_3	8868	Liddy,	75
SO^{+1}	+	C_6H_6	14787	Tedder,	79
CO_2	+	Ar	10099	Anicich,	77
CO_2	+	Ar^{+1}	9894	Lindinger,	77
CO_2	+	Ar^{+2}	9894	Lindinger,	77
CO_2	+	Br^-	15422	Dimov,	72
CO_2	+	Cl^-	15422	Dimov,	72
CO_2	+	He^{+1}	9780	Parker,	77
			9874	Chen,	77
CO_2	+	I^-	15422	Dimov,	72

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CO_2	+	O^-	12023	Paulson,	70
CO_2	+	H_2^{+1}	9780	Parker,	77
CO_2	+	NO^-	12023	Paulson,	70
CO_2	+	O_2^-	12023	Paulson,	70
CO_2^{+1}	+	Ar	9610	Muller,	77
			15145	Smith,	71
CO_2^{+1}	+	He	9610	Muller,	77
CO_2^{+1}	+	Kr	9610	Muller,	77
			15145	Smith,	71
CO_2^{+1}	+	Ne	9610	Muller,	77
CO_2^{+1}	+	Th	11891	Rutherford,	78
CO_2^{+1}	+	U	11891	Rutherford,	78
CO_2^{+1}	+	Xe	9610	Muller,	77
			15145	Smith,	71
CO_2^{+1}	+	CO	15145	Smith,	71
CO_2^{+1}	+	H_2	9610	Muller,	77
CO_2^{+1}	+	N_2	9610	Muller,	77
			15145	Smith,	71
CO_2^{+1}	+	NO	15145	Smith,	71
CO_2^{+1}	+	O_2	9610	Muller,	77
			10252	Lindinger,	75
			12074	Schildcrout,	70
			14953	Kobayashi,	74
			15145	Smith,	71
CO_2^{+1}	+	CO_2	9610	Muller,	77
			10295	Kaiser,	74
			11338	Huntress Jr.,	71
			15079	Lavigne,	72
			15145	Smith,	71
CO_2^{+1}	+	H_2S	14232	Jowko,	79
CO_2^{+1}	+	N_2O	15013	Sunner,	79
CO_2^{+1}	+	C_2H_2	15145	Smith,	71
CO_2^{+1}	+	NH_3	14232	Jowko,	79
CO_2^{+1}	+	CF_4	11340	Smith,	71
			15145	Smith,	71
CO_2^{+1}	+	CH_4	9610	Muller,	77
			12528	Gaugehofer,	72
			12613	Ausloos,	75
			15145	Smith,	71
CO_2^{+1}	+	SiH_4	12527	Bowers,	72
			12613	Ausloos,	75
CO_2^{+1}	+	C_2H_4	15145	Smith,	71
CO_2^{+1}	+	C_2F_6	11340	Smith,	71
			15145	Smith,	71
CO_2^{+1}	+	C_2H_6	11142	Lifshitz,	72
CO_2^{+1}	+	C_6H_6	14787	Tedder,	79
CS_2	+	Cl^-	5794	Hughes,	73
CS_2	+	O^-	5794	Hughes,	73
CS_2	+	NO^-	5794	Hughes,	73

CS_2^{+1}	+	C_6H_6	14787	Tedder, 79
D_3^{+1}	+	Cs	7722	Meyer, 75
			7805	Anderson, 75
HCN^{+1}	+	D	14792	Karpas, 79
HCN^{+1}	+	C_6H_6	14787	Tedder, 79
H_3^{+1}	+	H_3	11338	Huntress Jr., 71
H_3^{+1}	+	H_2O	13536	Dagnac, 70
H_3^{+1}	+	N_2O	9144	Bearman, 77
H_2O^{+1}	+	Ca	11154	Rutherford, 72
H_2O^{+1}	+	Fe	11155	Rutherford, 72
H_2O^{+1}	+	Mg	11362	Rutherford, 71
H_2O^{+1}	+	Na	11052	Rutherford, 72
H_2O^{+1}	+	H_2S	14232	Jowko, 79
H_2O^{+1}	+	NH_3	14232	Jowko, 79
H_2O^{+1}	+	CD_3OH	11142	Lifshitz, 72
H_2O^{+1}	+	C_2H_6	11142	Lifshitz, 72
H_2O^{+1}	+	C_2H_5OH	11142	Lifshitz, 72
H_2O^{+1}	+	C_2H_6CO	11142	Lifshitz, 72
H_2O^{+1}	+	C_3H_8	11142	Lifshitz, 72
H_2O^{+1}	+	C_6H_6	14787	Tedder, 79
H_2S	+	He^{+1}	9874	Chen, 77
H_2S^{+1}	+	CD_3OH	11142	Lifshitz, 72
H_2S^{+1}	+	C_2H_5OH	11142	Lifshitz, 72
H_2S^{+1}	+	C_2H_6CO	11142	Lifshitz, 72
H_2S^{+1}	+	C_6H_6	14787	Tedder, 79
H_2S^{+1}	+	C_3H_8O	11142	Lifshitz, 72
H_2S^{+1}	+	C_3H_7OH	11142	Lifshitz, 72
H_2S^{+1}	+	C_4H_{10}	11142	Lifshitz, 72
NH_2^{+1}	+	NH_3	11991	Ryan, 70
			12087	Huntress Jr., 71
N_2H^{+1}	+	CO_2	13997	Rakshit, 78
N_3^{+1}	+	H_2S	12875	Smith, 78
N_3^{+1}	+	NH_2	12875	Smith, 78
N_3^{+1}	+	OCS	12875	Smith, 78
N_3^{+1}	+	H_2CO	12875	Smith, 78
N_3^{+1}	+	CH_3OH	12875	Smith, 78
N_3^{+1}	+	CH_3NH_2	12875	Smith, 78
N_2O	+	Ar	10099	Anicich, 77
N_2O	+	O^-	10965	Marx, 73
			12022	Paulson, 70

N_2O	+	NO^-	10965	Marx, 73
			12022	Paulson, 70
N_2O^{+1}	+	Ca	11154	Rutherford, 72
N_2O^{+1}	+	Mg	11362	Rutherford, 71
N_2O^{+1}	+	Na	11052	Rutherford, 72
N_2O^{+1}	+	H_2S	14232	Jowko, 79
N_2O^{+1}	+	N_2O	15013	Sunner, 79
N_2O^{+1}	+	NH_3	14232	Jowko, 79
N_2O^{+1}	+	SiH_4	12527	Bowers, 72
			12613	Ausloos, 75
N_2O^{+1}	+	C_2H_6	11142	Lifshitz, 72
N_2O^{+1}	+	C_6H_6	14787	Tedder, 79
NO_2	+	Br^-	5794	Hughes, 73
			12454	Lifshitz, 70
			12876	Lifshitz, 78
NO_2	+	Cl^-	7733	Vogt, 75
			12454	Lifshitz, 70
NO_2	+	D^-	5794	Hughes, 73
			15219	Vogt, 70
NO_2	+	F^-	5794	Hughes, 73
NO_2	+	H^-	15219	Vogt, 70
NO_2	+	I^-	5794	Hughes, 73
			11348	Berkowitz, 71
NO_2	+	O^-	5794	Hughes, 73
			7733	Vogt, 75
			10572	Lifshitz, 73
			14058	Dotan, 79
			14914	Lifshitz, 73
NO_2	+	S^-	5794	Hughes, 73
			12516	Dunkin, 72
NO_2	+	SH^-	5794	Hughes, 73
			12516	Dunkin, 72
NO_2	+	CS_2^-	5794	Hughes, 73
NO_2	+	NO_2^-	5794	Hughes, 73
NO_2	+	O_3^-	10988	Rutherford, 73
			12876	Lifshitz, 78
NO_2	+	SO_2^-	5794	Hughes, 73
NO_2	+	CF_3^-	5794	Hughes, 73
NO_2	+	$SiCl_4^-$	10572	Lifshitz, 73
NO_2	+	SF_5^-	10572	Lifshitz, 73
NO_2	+	$C_2F_5^-$	5794	Hughes, 73
NO_2	+	SF_6^-	10572	Lifshitz, 73
NO_2	+	$C_4F_8^-$	10572	Lifshitz, 73
NO_2^{+1}	+	C_6H_6	14787	Tedder, 79
OCS^{+1}	+	H_2S	14232	Jowko, 79
OCS^{+1}	+	NH_3	14232	Jowko, 79

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O_3	+	Br^-	12876	Lifshitz, 78
O_3	+	Cl^-	10988	Rutherford, 73
O_3	+	F^-	10988	Rutherford, 73
			12876	Lifshitz, 78
O_3	+	I^-	11348	Berkowitz, 71
			12876	Lifshitz, 78
O_3	+	O^-	10988	Rutherford, 73
			12876	Lifshitz, 78
			15444	Lifshitz, 77
O_3	+	S^-	12876	Lifshitz, 78
			15444	Lifshitz, 77
O_3	+	Cl_2^-	12876	Lifshitz, 78
O_3	+	OH^-	10988	Rutherford, 73
			12876	Lifshitz, 78
O_3	+	O_2^-	10988	Rutherford, 73
O_3	+	SH^-	12876	Lifshitz, 78
			15444	Lifshitz, 77
O_3	+	C_2H^-	12876	Lifshitz, 78
O_3	+	NO_2^-	10988	Rutherford, 73
			12876	Lifshitz, 78
SO_2	+	Cl^-	5794	Hughes, 73
			7733	Vogt, 75
SO_2	+	D^-	5794	Hughes, 73
SO_2	+	I^-	5794	Hughes, 73
			9520	Refaey, 76
SO_2	+	O^-	7733	Vogt, 75
			10253	Lindinger, 75
SO_2	+	S^-	5794	Hughes, 73
SO_2	+	SO^-	14058	Dotan, 79
SO_2^{+1}	+	C_6H_6	14787	Tedder, 79
C_2H_2	+	Ar^{+2}	9894	Lindinger, 77
$C_2H_2^{+1}$	+	Ar	14901	Fromont, 70
$C_2H_2^{+1}$	+	Kr	14901	Fromont, 70
$C_2H_2^{+1}$	+	Xe	14901	Fromont, 70
$C_2H_2^{+1}$	+	H_2S	14232	Jowko, 79
$C_2H_2^{+1}$	+	C_2H_2	15145	Smith, 71
$C_2H_2^{+1}$	+	NH_3	14232	Jowko, 79
$C_2H_2^{+1}$	+	CF_4	11340	Smith, 71
			15145	Smith, 71
$C_2H_2^{+1}$	+	CH_4	15145	Smith, 71
$C_2H_2^{+1}$	+	C_2H_4	15145	Smith, 71
$C_2H_2^{+1}$	+	C_2H_6	14901	Fromont, 70
$C_2H_2^{+1}$	+	C_2H_5OH	11142	Lifshitz, 72
$C_2H_2^{+1}$	+	C_2H_6CO	11142	Lifshitz, 72
$C_2H_2^{+1}$	+	C_3H_8	14901	Fromont, 70

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$C_2H_2^{+1}$	+	C_6H_6	14787	Tedder, 79
$C_2H_2^{+1}$	+	C_3H_8O	11142	Lifshitz, 72
$C_2H_2^{+1}$	+	C_3H_7OH	11142	Lifshitz, 72
$C_2H_2^{+1}$	+	C_4H_{10}	11142	Lifshitz, 72
CH_3^{+1}	+	CD_4	8127	Ardelean, 76
CH_3^{+1}	+	CH_2D_2	8127	Ardelean, 76
CH_3^{+1}	+	CH_3D	8127	Ardelean, 76
CH_3^{+1}	+	CH_4	8127	Ardelean, 76
CH_3^{+1}	+	C_6H_6	14787	Tedder, 79
H_3O^{+1}	+	Ca	11154	Rutherford, 72
H_3O^{+1}	+	Na	11052	Rutherford, 72
$H_2O_2^{+1}$	+	NO	7316	Lindinger, 75
NF_3	+	Kr^{+1}	10229	Shaw, 77
NH_3	+	Ar^{+1}	9582	Chau, 76
NH_3	+	He^{+1}	9582	Chau, 76
NH_3	+	Kr^{+1}	9582	Chau, 76
NH_3	+	Ne^{+1}	9582	Chau, 76
NH_3	+	Xe^{+1}	9582	Chau, 76
NH_3	+	CO^{+1}	9582	Chau, 76
NH_3	+	CO_2^{+1}	9582	Chau, 76
NH_3	+	H_2O^{+1}	10170	Anicich, 77
NH_3^{+1}	+	NH_3	12087	Huntress Jr., 71
NH_3^{+1}	+	C_6H_6	14787	Tedder, 79
N_4^{+1}	+	CO	12875	Smith, 78
N_4^{+1}	+	O_2	12875	Smith, 78
N_4^{+1}	+	CO_2	12875	Smith, 78
N_4^{+1}	+	H_2O	12875	Smith, 78
N_4^{+1}	+	H_2S	12875	Smith, 78
N_4^{+1}	+	OCS	12875	Smith, 78
N_4^{+1}	+	H_2CO	12875	Smith, 78
N_4^{+1}	+	NH_3	12875	Smith, 78
N_4^{+1}	+	CH_4	12875	Smith, 78
N_4^{+1}	+	CH_3OH	12875	Smith, 78
N_4^{+1}	+	CH_3NH_2	12875	Smith, 78
NO_3	+	1^-	11348	Berkowitz, 71
PH_3	+	Ar^{+1}	9582	Chau, 76
PH_3	+	He^{+1}	9582	Chau, 76

PH_3	+	Kr^{+1}	9582	Chau, 76
PH_3	+	Ne^{+1}	9582	Chau, 76
PH_3	+	Xe^{+1}	9582	Chau, 76
PH_3	+	CO^{+1}	9582	Chau, 76
PH_3	+	CO_2^{+1}	9582	Chau, 76
CCl_4	+	I^-	15422	Dimov, 72
CH_3Cl^{+1}	+	C_6H_6	14787	Tedder, 79
CH_4^{+1}	+	CH_4	12085	Dunbar, 71
			14908	Thean, 72
			15145	Smith, 71
CH_4^{+1}	+	CD_3OH	11142	Lifshitz, 72
CH_4^{+1}	+	C_2H_6	11142	Lifshitz, 72
CH_4^{+1}	+	C_2H_6CO	11142	Lifshitz, 72
CH_4^{+1}	+	C_6H_6	14787	Tedder, 79
C_2H_4	+	O^-	10253	Lindinger, 75
$C_2H_4^{+1}$	+	Ar	14901	Fromont, 70
$C_2H_4^{+1}$	+	Kr	14901	Fromont, 70
			15145	Smith, 71
$C_2H_4^{+1}$	+	Xe	14901	Fromont, 70
			15145	Smith, 71
$C_2H_4^{+1}$	+	NO	15145	Smith, 71
$C_2H_4^{+1}$	+	C_2H_4	15145	Smith, 71
$C_2H_4^{+1}$	+	C_2H_6	14901	Fromont, 70
$C_2H_4^{+1}$	+	C_3H_8	14901	Fromont, 70
$C_2H_4^{+1}$	+	C_6H_6	14787	Tedder, 79
CH_3OH	+	H^{+1}	9813	Mach, 77
CH_3OH	+	H_2^{+1}	9813	Mach, 77
CH_3OH	+	H_3^{+1}	9813	Mach, 77
CH_3OH^{+1}	+	C_2H_5OH	11142	Lifshitz, 72
CH_3OH^{+1}	+	C_2H_6CO	11142	Lifshitz, 72
CH_3OH^{+1}	+	C_6H_6	14787	Tedder, 79
CH_3OH^{+1}	+	C_3H_8O	11142	Lifshitz, 72
CH_3OH^{+1}	+	C_3H_7OH	11142	Lifshitz, 72
CH_3OH^{+1}	+	C_4H_{10}	11142	Lifshitz, 72
SF_6	+	Br^-	10572	Lifshitz, 73
			15422	Dimov, 72
SF_6	+	Cl^-	10572	Lifshitz, 73
			12454	Lifshitz, 70
			15422	Dimov, 72
SF_6	+	D^-	10572	Lifshitz, 73
SF_6	+	I^-	10572	Lifshitz, 73
			15422	Dimov, 72

SF_6	+	K	7619	Hubers, 75
SF_6	+	Li	7619	Hubers, 75
SF_6	+	Na	7619	Hubers, 75
SF_6	+	O^-	10572	Lifshitz, 73
SF_6	+	S^-	10572	Lifshitz, 73
SF_6	+	NO^-	10572	Lifshitz, 73
SF_6	+	OH^-	10572	Lifshitz, 73
SF_6	+	O_2^-	10572	Lifshitz, 73
SF_6	+	SO_2^-	10572	Lifshitz, 73
SF_6	+	$C_2H_2^-$	10572	Lifshitz, 73
SF_6	+	SF_6^-	10572	Lifshitz, 73
SeF_6	+	SF_6^-	11943	Stockdale, 70
TeF_6	+	SF_6^-	11943	Stockdale, 70
UF_6	+	UF_5^-	11943	Stockdale, 70
UF_6	+	SF_6^-	11943	Stockdale, 70
$C_2H_6^{+1}$	+	Ar	14901	Fromont, 70
$C_2H_6^{+1}$	+	Kr	14901	Fromont, 70
$C_2H_6^{+1}$	+	Xe	14901	Fromont, 70
$C_2H_6^{+1}$	+	C_2H_6	14901	Fromont, 70
$C_2H_6^{+1}$	+	C_2H_5OH	11142	Lifshitz, 72
$C_2H_6^{+1}$	+	C_2H_6CO	11142	Lifshitz, 72
$C_2H_6^{+1}$	+	C_3H_8	11142	Lifshitz, 72
			14901	Fromont, 70
$C_2H_6^{+1}$	+	C_3H_8O	11142	Lifshitz, 72
$C_2H_6^{+1}$	+	C_3H_7OH	11142	Lifshitz, 72
$C_2H_6^{+1}$	+	C_4H_{10}	11142	Lifshitz, 72
$C_3H_8^{+1}$	+	C_2H_5OH	11142	Lifshitz, 72
$C_3H_8^{+1}$	+	C_2H_6CO	11142	Lifshitz, 72
$C_3H_8^{+1}$	+	C_3H_8O	11142	Lifshitz, 72
$C_3H_8^{+1}$	+	C_3H_7OH	11142	Lifshitz, 72
C_6F_6	+	Br^-	15422	Dimov, 72
C_6F_6	+	I^-	10572	Lifshitz, 73
			15422	Dimov, 72
C_6F_6	+	S^-	10572	Lifshitz, 73
$C_6H_5Br^{+1}$	+	C_6H_5Br	10879	Bregman-Reisler, 73
$C_6H_5Cl^{+1}$	+	C_6H_5Cl	10879	Bregman-Reisler, 73
$C_6H_5F^{+1}$	+	C_6H_5F	10879	Bregman-Reisler, 73
$C_6H_6^{+1}$	+	C_6H_5Br	10879	Bregman-Reisler, 73
$C_6H_6^{+1}$	+	C_6H_5Cl	10879	Bregman-Reisler, 73

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$C_6H_6^{+1}$	+	C_6H_5F	10879	Bregman-Reisler, 73
$C_6H_6^{+1}$	+	C_6H_6	10879	Bregman-Reisler, 73
$C_6H_6^{+1}$	+	C_6H_5I	10879	Bregman-Reisler, 73
$C_6H_5I^{+1}$	+	C_6H_5I	10879	Bregman-Reisler, 73
$C_4H_{10}^{+1}$	+	C_2H_6CO	11142	Lifshitz, 72

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Ar	+	He	13992	Piper, 78
Ar^{+1}	+	Ar	14676	Matsuo, 79
Ar^{+1}	+	Mg	9135	Beth, 77
Ar^{+1}	+	Na	13343	Dutta, 79
Ar^{+1}	+	CO	15155	Brandt, 73
Ar^{+1}	+	D_2	7692	Budzynski, 75
Ar^{+1}	+	H_2	7692	Budzynski, 75
			14530	Brandt, 79
Ar^{+1}	+	N_2	7692	Budzynski, 75
			14709	Lavrov, 79
			15155	Brandt, 73
Ar^{+1}	+	NO	7692	Budzynski, 75
Ar^{+1}	+	O_2	7692	Budzynski, 75
			15116	Mauclaire, 79
Br^{+1}	+	Ar	14918	Keough, 75
Br^{+1}	+	Kr	14918	Keough, 75
Br^{+1}	+	Xe	14918	Keough, 75
C^{+1}	+	NO	15155	Brandt, 73
Cl^{+1}	+	Ar	14918	Keough, 75
Cl^{+1}	+	Kr	14918	Keough, 75
Cl^{+1}	+	Xe	14918	Keough, 75
Cs	+	CO_2	7104	Compton, 75
D^{+1}	+	Na	13343	Dutta, 79
H	+	H^-	15284	Prelac, 73
H^{+1}	+	Cs	9146	Brouillard, 77
H^{+1}	+	Na	13343	Dutta, 79
H^{+1}	+	Xe	15383	Fournier, 74
H^{+1}	+	D_2	15170	Clement, 70
H^{+1}	+	H_2	15170	Clement, 70
H^{+1}	+	N_2	14709	Lavrov, 79
			14976	Ghosh, 70
H^{+1}	+	C_2H_4	7708	Benoit, 75
He^{+1}	+	Ar	15300	De Corpo, 70
He^{+1}	+	Ba	10815	Hultzsch, 77
He^{+1}	+	Ca	13624	Melius, 74
He^{+1}	+	Cd	14924	Collins, 73
He^{+1}	+	Cs	14674	Reynaud, 79
			14774	Reynaud, 79
He^{+1}	+	He	14520	Jaecks, 79

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He^{+1}	+	He	15429	Latypov, 75
He^{+1}	+	K	12220	Bearman, 78
			14674	Reynaud, 79
			14774	Reynaud, 79
He^{+1}	+	Kr	15270	Nagy, 71
He^{+1}	+	La	13231	Littlewood, 74
He^{+1}	+	Mg	15395	Latush, 72
He^{+1}	+	Na	12220	Bearman, 78
			13343	Dutta, 79
			14674	Reynaud, 79
			14774	Reynaud, 79
He^{+1}	+	Rb	14674	Reynaud, 79
			14774	Reynaud, 79
He^{+1}	+	Y	13231	Littlewood, 74
He^{+1}	+	Zn	13624	Melius, 74
			14924	Collins, 73
He^{+1}	+	CO	12196	Parker, 78
He^{+1}	+	H_2	14520	Jaecks, 79
			15177	Hollstein, 70
He^{+1}	+	N_2	14708	Schmidt, 79
			14709	Lavrov, 79
He^{+1}	+	O_2	15071	Lister, 79
He^{+1}	+	NH_3	10282	Lindinger, 75
He^{+2}	+	Ar	14778	Johnsen, 79
He^{+2}	+	He	15319	Latypov, 70
He^{+2}	+	Hg	12255	Niehaus, 78
He^{+2}	+	Kr	14719	Johnsen, 79
			14778	Johnsen, 79
He^{+2}	+	Xe	14719	Johnsen, 79
			14778	Johnsen, 79
He^{+2}	+	N_2	12227	Rogers, 78
I^{+1}	+	Ar	14918	Keough, 75
I^{+1}	+	Kr	14918	Keough, 75
I^{+1}	+	Xe	14918	Keough, 75
K	+	NO	14714	Okada, 79
K	+	CS_2	7104	Compton, 75
K	+	NO_2	14715	Kimura, 79
K	+	SF_6	14714	Okada, 79
K^*	+	K	6570	Fontijn, 75
K^{+1}	+	Ar	7949	Makita, 75
Kr^{+1}	+	Na	13343	Dutta, 79
Kr^{+1}	+	NO	7692	Budzynski, 75
Li^{+1}	+	He	15427	Latypov, 73
Li^{+1}	+	Ne	15427	Latypov, 73
N^{+1}	+	Ar	13581	Vujovic, 72
N^{+1}	+	N_2	14709	Lavrov, 79
N^{+1}	+	O_2	12106	Tully, 71

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N^{+1}	+	CH_3COCH_3	14806	Freeman, 79
N^{+2}	+	Ar	13957	Sharma, 79
N^{+2}	+	He	13957	Sharma, 79
			14663	Hasted, 79
			14680	Sato, 79
N^{+2}	+	Ne	13957	Sharma, 79
			14663	Hasted, 79
Na	+	OCS	7104	Compton, 75
Na^{+1}	+	K	8261	Riggin, 75
Na^{+1}	+	Ne	15385	Bobashev, 70
Ne^{+1}	+	Fe	14280	Johansson, 78
Ne^{+1}	+	He	14700	Morgenstern, 79
Ne^{+1}	+	Na	13343	Dutta, 79
Ne^{+1}	+	Te	14827	Silfvast, 72
Ne^{+1}	+	CO	15155	Brandt, 73
Ne^{+1}	+	N_2	7692	Budzynski, 75
			12012	Govers, 78
			14709	Lavrov, 79
			14909	Adams, 72
			14913	Adams, 73
			15155	Brandt, 73
Ne^{+1}	+	O_2	7692	Budzynski, 75
Ne^{+2}	+	He	14700	Morgenstern, 79
Ne^{+2}	+	Kr	14778	Johnsen, 79
Ne^{+2}	+	Xe	14778	Johnsen, 79
Ne^{+3}	+	He	14700	Morgenstern, 79
Ne^{+3}	+	H_2	14700	Morgenstern, 79
O^{+1}	+	N_2	7929	Harris, 75
			14709	Lavrov, 79
O^{+1}	+	CH_3COCH_3	14806	Freeman, 79
Xe^{+1}	+	Ca	14925	Chubb, 75
Xe^{+1}	+	Mg	9135	Beth, 77
CN^{+1}	+	CH_3COCH_3	14806	Freeman, 79
H_2^{+1}	+	Ar	12750	Vogler, 78
H_2^{+1}	+	He	12750	Vogler, 78
H_2^{+1}	+	H_2	12750	Vogler, 78
H_2^{+1}	+	N_2	14709	Lavrov, 79
			14805	Dagdigian, 79
H_2^{+1}	+	CH_2D_2	7235	Ardelean, 75
H_2^{+1}	+	CH_3D	7235	Ardelean, 75
He_2^{+1}	+	CO	14829	Waller, 75
He_2^{+1}	+	N_2	7935	Cunningham, 75
N_2	+	H^-	7937	Risley, 75
N_2^{+1}	+	Ne	14909	Adams, 72
N_2^{+1}	+	CH_3COCH_3	14806	Freeman, 79
NO^{+1}	+	NO_2^-	14355	Smith, 78
O_2	+	K	7933	Lacmann, 75

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O_2^{+1}	+	N_2	15161	MacKay, 72
O_2^{+1}	+	O_2	15161	MacKay, 72
$C_2N_2^{+1}$	+	CH_3COCH_3	14806	Freeman, 79
CH_4^{+1}	+	CH_2D_2	7235	Ardelean, 75
CH_4^{+1}	+	CH_3D	7235	Ardelean, 75
TeF_6	+	Cs	14500	Stockdale, 79
UF_6	+	Cs	14500	Stockdale, 79
WF_6	+	Cs	14500	Stockdale, 79
Ions			14319	Dolder, 77
- -			10378	Panov, 76
			14060	Jensen, 78
			14333	Herman, 77
			14390	Muller, 77
			14886	Massey, 72
			15009	Gentry, 79
			15200	Karmohapatro, 7

CHARGE TRANSFER THEORETICAL

REVIEW

Ar^{+1}	+	Ar	8173	Salzborn, 76
Ar^{+2}	+	Ar	8173	Salzborn, 76
H	+	H	7577	Bayfield, 75
H^{+1}	+	H	7577	Bayfield, 75
			13651	Basu, 78
H^{+1}	+	H^-	7577	Bayfield, 75
			7578	Risley, 75
			13651	Basu, 78
H^{+1}	+	He	7577	Bayfield, 75
He^{+1}	+	H	13651	Basu, 78
He^{+1}	+	He	13651	Basu, 78
He^{+2}	+	H	7577	Bayfield, 75
He^{+2}	+	He	7577	Bayfield, 75
			13651	Basu, 78
- -			7577	Bayfield, 75
			8248	Moseley, 75
			10115	Moiseiwitsch, 77
			13651	Basu, 78
			14334	Los, 77
			14890	Day, 70
			15005	Bransden, 72
			15167	Baede, 75

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Ag^{+1}	+	Ag	8302	Duman, 74
			14000	Nikitin, 78
Al^{+1}	+	Al	8302	Duman, 74
			14000	Nikitin, 78
Ar^{*}	+	SF_6	14943	Matsuzawa, 72
Ar^{+1}	+	Ar	7762	Hodgkinson, 76
			8302	Duman, 74

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Ar^{+1}	+	Ar	13264	Duman, 72
			13528	Johnson, 70
			14000	Nikitin, 78
			14946	Johnson, 72
			15206	Robinson, 79
Ar^{+1}	+	Cs	7009	Ice, 75
			7064	Herrick, 75
Ar^{+1}	+	K	7009	Ice, 75
			7064	Herrick, 75
Ar^{+1}	+	Rb	7009	Ice, 75
			7064	Herrick, 75
Ar^{+1}	+	D_2	9401	Micha, 77
Ar^{+1}	+	H_2	9138	Hedrick, 77
			10396	Chapman, 74
Ar^{+1}	+	N_2	12148	Fullerton, 71
Ar^{+1}	+	$C_2H_2Cl_2$	10960	Su, 73
Ar^{+1}	+	$C_2H_2F_2$	12558	Dugan Jr., 73
Ar^{+1}	+	$C_6H_4F_2$	10960	Su, 73
			12558	Dugan Jr., 73
Ar^{+6}	+	Ar	11819	Grozdanov, 78
Ar^{+6}	+	He	11819	Grozdanov, 78
			14683	Opradolce, 79
Ar^{+7}	+	Ar	11819	Grozdanov, 78
Ar^{+18}	+	H	8170	Salop, 76
			9278	Bottcher, 77
As^{+1}	+	As	8302	Duman, 74
Au^{+1}	+	Au	8302	Duman, 74
			14000	Nikitin, 78
B^{+1}	+	B	8302	Duman, 74
B^{+3}	+	H	11100	Olson, 78
B^{+3}	+	He	7807	Olson, 75
			9577	Shipsey, 77
B^{+5}	+	B^{+4}	9377	Zhdanov, 76
B^{+5}	+	H	9278	Bottcher, 77
			14254	Salop, 79
			14353	Ryufuku, 79
Ba^{+1}	+	Ba	8302	Duman, 74
			14000	Nikitin, 78
			15231	Duman, 70
Be^{+1}	+	Be	8302	Duman, 74
			15231	Duman, 70
Be^{+2}	+	H	13735	Penner, 72
Be^{+3}	+	He	8634	Malaviya, 73
Be^{+4}	+	Be^{+3}	9377	Zhdanov, 76
Be^{+4}	+	H	9140	Msezane, 77
			9278	Bottcher, 77
			14353	Ryufuku, 79
Be^{+5}	+	H	9140	Msezane, 77
Bi^{+1}	+	Bi	8302	Duman, 74

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Br^{+1}	+	Br	8302	Duman, 74
			14000	Nikitin, 78
C^{+1}	+	C	8302	Duman, 74
			14000	Nikitin, 78
C^{+1}	+	$C^{\bullet}$	15417	Duman, 70
C^{+1}	+	H	14835	Steigman, 75
C^{+1}	+	N_2	14907	Fullerton, 72
C^{+1}	+	O_2	14907	Fullerton, 72
C^{+2}	+	H	14835	Steigman, 75
C^{+2}	+	He	8209	Makhdis, 76
			14833	Brown, 72
C^{+2}	+	Ne	8209	Makhdis, 76
C^{+3}	+	H	8092	Blint, 76
			14517	Watson, 79
C^{+4}	+	H	8470	Olson, 76
			11100	Olson, 78
C^{+4}	+	He	9577	Shipsey, 77
C^{+4}	+	H_2	8470	Olson, 76
C^{+5}	+	H	8470	Olson, 76
C^{+6}	+	C^{+5}	9377	Zhdanov, 76
C^{+6}	+	H	7806	Salop, 75
			8170	Salop, 76
			8470	Olson, 76
			9278	Bottcher, 77
			11507	Greenland, 78
			13975	Abramov, 78
			14254	Salop, 79
			14353	Ryufuku, 79
C^{+6}	+	$H^{\bullet}$	7806	Salop, 75
Ca^{+1}	+	Ca	8300	Sinha, 76
			8302	Duman, 74
			14000	Nikitin, 78
			14049	Liu, 78
			15231	Duman, 70
Ca^{+20}	+	H	15054	Ryufuku, 79
Cd^{+1}	+	Cd	8302	Duman, 74
			14000	Nikitin, 78
			15231	Duman, 70
Cl^{+1}	+	Cl	8302	Duman, 74
			14000	Nikitin, 78
Co^{+1}	+	Co	8302	Duman, 74
Cr^{+1}	+	Cr	8302	Duman, 74
			14000	Nikitin, 78
Cs	+	Cl	9001	Arora, 76
Cs	+	D	10809	Janev, 77
Cs	+	F	9001	Arora, 76
Cs	+	O	12051	Van Den Bos, 70
			14884	Van Den Bos, 74
Cs	+	I_2	9618	Evers, 77

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Cs	+	I_2	9619	Aten, 77
Cs^{+1}	+	Cs	7268	Bardsley, 75
			7676	Montes, 75
			7762	Hodgkinson, 76
			8300	Sinha, 76
			8302	Duman, 74
			11974	Heiche, 70
			12149	Nebenzahl, 71
			13178	Dewangan, 70
			14000	Nikitin, 78
			15326	Smirnov, 71
Cs^{+1}	+	D^-	11474	Janev, 78
Cs^{+1}	+	H	11111	Bottcher, 78
Cs^{+1}	+	H^-	8007	Olson, 76
			10809	Janev, 77
			11474	Janev, 78
Cs^{+1}	+	Hg	11111	Bottcher, 78
Cs^{+1}	+	Rb	14670	Valance, 79
Cu^{+1}	+	Cu	8302	Duman, 74
			14000	Nikitin, 78
D	+	Cs	11474	Janev, 78
D	+	H^{+1}	10233	Hunter, 77
D	+	K	11474	Janev, 78
D	+	Li	11474	Janev, 78
D	+	Na	11474	Janev, 78
D	+	Rb	11474	Janev, 78
D^{+1}	+	H	13627	Msezane, 74
F^{+1}	+	F	8302	Duman, 74
			14000	Nikitin, 78
F^{+9}	+	H	9278	Bottcher, 77
Fe^{+1}	+	Fe	8302	Duman, 74
			14000	Nikitin, 78
Ga^{+1}	+	Ga	8302	Duman, 74
Ge^{+1}	+	Ge	8302	Duman, 74
H	+	Ar	14926	Green, 71
H	+	B^{+5}	10050	Harel, 77
H	+	Be^{+4}	10050	Harel, 77
H	+	C^{+2}	9783	Butler, 77
H	+	C^{+3}	9783	Butler, 77
H	+	C^{+6}	9768	Vaaben, 77
			9884	Salop, 77
H	+	Cs	8007	Olson, 76
			12759	Hiskes, 78
H	+	D^{+1}	10233	Hunter, 77
H	+	H	13209	Janev, 71
			13684	Ritchie, 70
			13959	Olson, 79
H	+	H^-	13725	Mizuno, 71
H	+	H^{+1}	9770	Hunter, 77

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H	+	H^{+1}	9879	Glembocki, 77
			10233	Hunter, 77
H	+	He	14926	Green, 71
H	+	He^{+2}	9886	Olson, 77
H	+	Kr	14926	Green, 71
H	+	N^{+2}	9783	Butler, 77
H	+	Ne	14926	Green, 71
H	+	O^{+8}	10050	Harel, 77
H	+	Xe	14926	Green, 71
H^-	+	N_2	10198	Risley, 77
$H^{\bullet}$	+	Ar	15242	Olson, 75
$H^{\bullet}$	+	He^{+2}	10676	Salin, 77
$H^{\bullet}$	+	Kr	15242	Olson, 75
$H^{\bullet}$	+	Ne	13699	Baragiola, 71
$H^{\bullet}$	+	Xe	15242	Olson, 75
H^{+1}	+	Ar	9599	Benoit, 77
			12238	Shevelko, 78
			13577	Sidis, 72
			14926	Green, 71
			15335	Vinogradov, 71
H^{+1}	+	Ba	14278	Morgan, 79
H^{+1}	+	Be^{+1}	13348	Crothers, 78
H^{+1}	+	C^{+1}	8882	Fujiwara, 76
H^{+1}	+	C^{+2}	8882	Fujiwara, 76
H^{+1}	+	C^{+3}	8882	Fujiwara, 76
H^{+1}	+	C^{+4}	8882	Fujiwara, 76
H^{+1}	+	C^{+5}	8882	Fujiwara, 76
H^{+1}	+	Cd	12238	Shevelko, 78
H^{+1}	+	Cs	7804	Valance, 75
			8007	Olson, 76
			12238	Shevelko, 78
			12256	Sidis, 78
			14288	Valance, 79
			14294	Pradel, 79
			14669	Valance, 79
			14671	Pradel, 79
			15391	Presnyakov, 71
H^{+1}	+	D	12208	Watson, 78
			12745	Davis, 78
H^{+1}	+	Eu	13919	Boerner, 78
H^{+1}	+	Fe^{+7}	8882	Fujiwara, 76
H^{+1}	+	Fe^{+15}	8882	Fujiwara, 76
H^{+1}	+	Fe^{+23}	8882	Fujiwara, 76
H^{+1}	+	H	7161	Sil, 75
			7172	Omidvar, 75
			7802	Sil, 75
			8145	Matveenko, 76
			8302	Duman, 74
			8862	Demkov, 76

H^{+1}	+	H	9140	Msezane, 77
			9416	Storm, 76
			9639	Saha, 76
			11114	Banks, 77
			11184	Rapp, 72
			11469	Tripathy, 78
			12745	Davis, 78
			13171	Storm, 74
			13195	Rosenthal, 71
			13216	Dewangan, 73
			13222	Chen, 72
			13224	Anderson, 74
			13374	Chaudhuri, 73
			13380	Chen, 73
			13518	Gaussorgues, 75
			13522	McCarroll, 70
			13533	Cheshire, 70
			13538	McCarroll, 70
			13557	Corrigall, 71
			13627	Msezane, 74
			13659	Shakeshaft, 75
			13739	Rapp, 72
			13980	Ryufuku, 78
			14000	Nikitin, 78
			14084	Halpern, 78
			14653	Sil, 79
			14834	Ellis, 73
			14837	Knudson, 70
			15031	Crothers, 79
			15046	Maruhn–Rezwani, 79
			15050	Crothers, 79
			15077	Dose, 75
			15137	Ponce, 79
			15175	Dewangan, 70
			15425	Latypov, 73
H^{+1}	+	H^-	13362	Roy, 73
			14744	Chibisov, 78
			14896	Radtsig, 72
			15332	Radtsig, 71
H^{+1}	+	H^*	13542	Malaviya, 70
			14283	Toshima, 79
			14735	Toshima, 79
H^{+1}	+	He	7267	Bhadra, 75
			7368	Bhadra, 75
			8469	Bhadra, 76
			9282	Biswas, 77
			9599	Benoit, 77
			9638	Bhadra, 76
			10799	Crothers, 77
			13191	Ritchie, 71
			14926	Green, 71
H^{+1}	+	K	15101	Inoue, 72
			15415	Presnyakov, 74
H^{+1}	+	Kr	9599	Benoit, 77
			13375	Shakeshaft, 73
			14926	Green, 71

H^{+1}	+	Mg	7364	Olson, 75
			14278	Morgan, 79
			15415	Presnyakov, 74
H^{+1}	+	Mo^{+13}	8882	Fujiwara, 76
H^{+1}	+	Mo^{+31}	8882	Fujiwara, 76
H^{+1}	+	N	14832	Steigman, 71
H^{+1}	+	Ne	9599	Benoit, 77
			14926	Green, 71
			15415	Presnyakov, 74
H^{+1}	+	O^{+1}	8882	Fujiwara, 76
H^{+1}	+	O^{+2}	8882	Fujiwara, 76
H^{+1}	+	O^{+3}	8882	Fujiwara, 76
H^{+1}	+	O^{+4}	8882	Fujiwara, 76
H^{+1}	+	O^{+5}	8882	Fujiwara, 76
H^{+1}	+	O^{+6}	8882	Fujiwara, 76
H^{+1}	+	O^{+7}	8882	Fujiwara, 76
H^{+1}	+	Xe	7812	Le Sech, 75
			8867	Kubach, 76
			9599	Benoit, 77
			13197	Macek, 71
			13359	Shakeshaft, 72
			13375	Shakeshaft, 73
			13566	Shakeshaft, 72
			14926	Green, 71
H^{+1}	+	CS	10251	Valance, 75
H^{+1}	+	D_2	11326	Tully, 71
H^{+1}	+	H_2	11092	Top, 77
			11806	Piacentini, 78
			12603	Top, 74
			13547	Lin, 75
H^{+1}	+	N_2	9268	Eliot, 77
H^{+1}	+	H_2O	13536	Dagnac, 70
H^{+1}	+	CH_4	9268	Eliot, 77
H^{+1}	+	C_2H_6	9268	Eliot, 77
H^{+1}			10804	Demkov, 77
He	+	H^{+1}	10131	Hughes, 77
He	+	Li^{+1}	9790	Sidis, 77
He^{+1}	+	Ar	7954	Sidis, 75
			9139	Albat, 77
He^{+1}	+	Cs	13373	Olson, 73
			14675	Sidis, 79
He^{+1}	+	D	7725	Aubert, 76
He^{+1}	+	F^-	10382	Miller, 77
He^{+1}	+	H	7766	Fayeton, 76
			7956	Fayeton, 75
			13558	McCarroll, 71
He^{+1}	+	H^-	14896	Radtsig, 72
He^{+1}	+	He	7292	Bhattacharyya, 75
			7762	Hodgkinson, 76

He^{+1}	+	He	8302	Duman, 74
			9095	Piacentini, 77
			9413	Rai Dastidar, 76
			11974	Heiche, 70
			12149	Nebenzahl, 71
			13404	Guerin, 74
			13676	Chen, 70
			14000	Nikitin, 78
			15425	Latypov, 73
He^{+1}	+	K	13373	Olson, 73
He^{+1}	+	Mg	7681	Kulander, 75
			13623	Kulander, 75
He^{+1}	+	Ne^{*}	13971	Tang, 78
He^{+1}	+	Rb	13373	Olson, 73
He^{+1}	+	N_2	12148	Fullerton, 71
He^{+1}	+	$C_2H_2Cl_2$	10960	Su, 73
He^{+1}	+	$C_2H_2F_2$	12558	Dugan Jr., 73
He^{+1}	+	$C_6H_4F_2$	10960	Su, 73
			12558	Dugan Jr., 73
He^{+2}	+	H	9575	Piacentini, 77
			10364	Winter, 78
			10835	Winter, 77
			10927	Rapp, 73
			13606	Msezane, 73
			13622	Piacentini, 74
			13980	Ryufuku, 78
			14684	Vaaben, 79
			15030	Hatton, 79
He^{+2}	+	He	7176	Chen, 75
			9184	Chibisov, 76
			12254	Lopez, 78
			12751	Cohen, 78
			13926	Koike, 78
			14495	Bardsley, 79
			15055	Rivarola, 79
He^{+2}	+	He^{+1}	9377	Zhdanov, 76
			13347	Jognaux, 78
			15129	Dickinson, 79
He^{+2}	+	Li	13972	Shipsey, 78
Hf^{+1}	+	Hf	8302	Duman, 74
Hg^{+1}	+	Hg	7762	Hodgkinson, 76
			8302	Duman, 74
			12149	Nebenzahl, 71
			14000	Nikitin, 78
			15231	Duman, 70
I^{+1}	+	I	8302	Duman, 74
In^{+1}	+	In	8302	Duman, 74
			14000	Nikitin, 78
Ir^{+1}	+	Ir	8302	Duman, 74
K	+	Cl	9001	Arora, 76
			12929	Olson, 77
K	+	F	9001	Arora, 76

K	+	I	13341	Andresen, 78
			13342	Andresen, 78
K	+	Li^{+1}	10228	Wijnaendts, 77
K	+	Na^{+1}	10228	Wijnaendts, 77
K	+	O	12051	Van Den Bos, 70
K	+	Br_2	11793	Evers, 78
			12582	Havemann, 74
			14076	Moutinho, 79
			15027	Havemann, 79
K	+	I_2	9401	Micha, 77
			9618	Evers, 77
			9619	Aten, 77
			10827	Dalidchik, 77
K	+	O_2	6912	Ivanov, 74
K	+	CH_3Br	14076	Moutinho, 79
K	+	CH_3I	14076	Moutinho, 79
K^{+1}	+	Cs	11111	Bottcher, 78
K^{+1}	+	D^{-}	11474	Janev, 78
K^{+1}	+	H	11111	Bottcher, 78
			13627	Msezane, 74
K^{+1}	+	H^{-}	11474	Janev, 78
K^{+1}	+	Hg	11111	Bottcher, 78
K^{+1}	+	K	7290	Cavaliere, 75
			7762	Hodgkinson, 76
			8300	Sinha, 76
			8302	Duman, 74
			9100	Wijnaendts, 77
			12149	Nebenzahl, 71
			13178	Dewangan, 70
			14000	Nikitin, 78
			14900	Dewangan, 74
K^{+1}	+	Rb	11111	Bottcher, 78
			13358	Olson, 72
Kr^{*}	+	CCl_4	14947	Matsuzawa, 72
Kr^{+1}	+	Cs	7009	Ice, 75
			7064	Herrick, 75
Kr^{+1}	+	K	7009	Ice, 75
			7064	Herrick, 75
Kr^{+1}	+	Kr	7762	Hodgkinson, 76
			8300	Sinha, 76
			8302	Duman, 74
			10514	Smith, 73
			13264	Duman, 72
			14000	Nikitin, 78
			14946	Johnson, 72
Kr^{+1}	+	Rb	7009	Ice, 75
			7064	Herrick, 75
Kr^{+1}	+	CO	7004	Vitlina, 74
			10514	Smith, 73
Kr^{+1}	+	N_2	12148	Fullerton, 71
Kr^{+1}	+	$C_2H_2Cl_2$	10960	Su, 73

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Kr^{+1}	+	$C_2H_2F_2$	12558	Dugan Jr., 73
Kr^{+1}	+	$C_6H_4F_2$	10960	Su, 73
			12558	Dugan Jr., 73
Kr^{+3}	+	Ne	15243	Presnyakov, 75
Li			9513	Demkov, 76
Li	+	I	6920	Faist, 75
Li^{*}	+	K	11111	Bottcher, 78
Li^{+1}	+	Cs	11111	Bottcher, 78
Li^{+1}	+	D^{-}	11474	Janev, 78
Li^{+1}	+	H	11111	Bottcher, 78
Li^{+1}	+	H^{-}	11474	Janev, 78
Li^{+1}	+	He	13215	Le Sech, 73
			13430	Junker, 74
Li^{+1}	+	Hg	11111	Bottcher, 78
Li^{+1}	+	K	11111	Bottcher, 78
			13358	Olson, 72
Li^{+1}	+	Li	7268	Bardsley, 75
			7762	Hodgkinson, 76
			8300	Sinha, 76
			8302	Duman, 74
			9100	Wijnaendts, 77
			11940	Storm, 70
			12494	Bottcher, 71
			13671	Perel, 70
			13742	Dewangan, 72
			14000	Nikitin, 78
			14660	Shimakura, 79
			14736	Kita, 79
			14900	Dewangan, 74
Li^{+1}	+	Na	8159	Habitz, 75
			8862	Demkov, 76
			9148	Dinterman, 77
			11111	Bottcher, 78
			11811	Grosser, 78
			11940	Storm, 70
			13166	Melius, 72
			13358	Olson, 72
			13429	Melius, 74
			13564	Bottcher, 72
Li^{+1}	+	Rb	11111	Bottcher, 78
Li^{+3}	+	H	9140	Msezane, 77
			9278	Bottcher, 77
			14353	Ryufuku, 79
Li^{+3}	+	Li^{+2}	9377	Zhdanov, 76
Mg^{+1}	+	Mg	8302	Duman, 74
			12936	Pedersen, 78
			14000	Nikitin, 78
			15231	Duman, 70
Mg^{+2}	+	Mg	12936	Pedersen, 78
Mg^{+12}	+	H	9278	Bottcher, 77
Mn^{+1}	+	Mn	8302	Duman, 74

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Mo^{+1}	+	Mo	8302	Duman, 74
N^{+1}	+	Ar	10782	Sidis, 77
N^{+1}	+	H	14832	Steigman, 71
			15208	Constantinides, 79
N^{+1}	+	He	10782	Sidis, 77
N^{+1}	+	N	8302	Duman, 74
			9101	Capitelli, 77
			14000	Nikitin, 78
N^{+1}	+	N^{-}	14896	Radtsig, 72
N^{+1}	+	N^{*}	15417	Duman, 70
N^{+1}	+	O	15208	Constantinides, 79
N^{+3}	+	H	9378	Christensen, 77
			9609	Phaneuf, 77
			14517	Watson, 79
N^{+4}	+	H	8470	Olson, 76
			9609	Phaneuf, 77
N^{+4}	+	H_2	8470	Olson, 76
N^{+5}	+	H	8470	Olson, 76
			9609	Phaneuf, 77
N^{+6}	+	H	8470	Olson, 76
			9609	Phaneuf, 77
N^{+7}	+	H	8170	Salop, 76
			8470	Olson, 76
			9278	Bottcher, 77
			9609	Phaneuf, 77
N^{+7}	+	N^{+6}	9377	Zhdanov, 76
Na	+	Cl	9001	Arora, 76
			12929	Olson, 77
Na	+	F	9001	Arora, 76
Na	+	I	6920	Faist, 75
Na	+	O	12051	Van Den Bos, 70
Na	+	I_2	9618	Evers, 77
			9619	Aten, 77
Na^{+1}			9513	Demkov, 76
Na^{+1}	+	Cs	11111	Bottcher, 78
Na^{+1}	+	D^{-}	11474	Janev, 78
Na^{+1}	+	H	11111	Bottcher, 78
Na^{+1}	+	H^{-}	11474	Janev, 78
Na^{+1}	+	He	15333	Ankudinov, 71
Na^{+1}	+	Hg	11111	Bottcher, 78
Na^{+1}	+	K	8106	Chesnavich, 76
			11111	Bottcher, 78
Na^{+1}	+	Li	7815	Demkov, 75
			12518	Melius, 72
			13166	Melius, 72
			13358	Olson, 72
			13429	Melius, 74
			13564	Bottcher, 72
			14816	Schmalz, 79
Na^{+1}	+	Na	7268	Bardsley, 75

Na^{+1} +	Na	7290	Cavaliere, 75
		8300	Sinha, 76
		8302	Duman, 74
		9100	Wijnaendts, 77
		12494	Bottcher, 71
		14000	Nikitin, 78
		14900	Dewangan, 74
Na^{+1} +	Ne	15387	Latypov, 70
Na^{+1} +	Rb	11111	Bottcher, 78
Nb^{+1} +	Nb	8302	Duman, 74
Ne^{+1} +	Ne	7762	Hodgkinson, 76
		8302	Duman, 74
		13264	Duman, 72
		13442	Cohen, 75
		14000	Nikitin, 78
		15087	Hackam, 72
Ne^{+1} +	N_2	11192	Lowe, 72
		11193	Saban, 72
		12148	Fullerton, 71
Ne^{+1} +	$C_2H_2Cl_2$	10960	Su, 73
Ne^{+1} +	$C_2H_2F_2$	12558	Dugan Jr., 73
Ne^{+1} +	$C_6H_4F_2$	10960	Su, 73
		12558	Dugan Jr., 73
Ne^{+10} +	H	8170	Salop, 76
		9278	Bottcher, 77
		15054	Ryufuku, 79
Ni^{+1} +	Ni	8302	Duman, 74
O +	Cs	15436	Van Den Bos, 73
O +	K	15436	Van Den Bos, 73
O +	Na	15436	Van Den Bos, 73
O +	O^-	15095	Tancic, 70
O +	Rb	15436	Van Den Bos, 73
O^{+1} +	H	14831	Field, 71
		15094	Brown, 72
O^{+1} +	O	8302	Duman, 74
		14000	Nikitin, 78
O^{+1} +	O^-	14896	Radtsig, 72
O^{+1} +	O^*	15417	Duman, 70
O^{+2} +	H	14298	Butler, 79
O^{+2} +	He	8209	Makhdis, 76
O^{+4} +	H	8470	Olson, 76
		12760	Isler, 78
O^{+4} +	H_2	8470	Olson, 76
O^{+5} +	H	8470	Olson, 76
		12760	Isler, 78
O^{+6} +	H	8470	Olson, 76
		12760	Isler, 78
O^{+7} +	H	8470	Olson, 76
		12760	Isler, 78
O^{+8} +	H	8170	Salop, 76
O^{+8} +	H	8470	Olson, 76
		9278	Bottcher, 77
		13975	Abramov, 78
		13980	Ryufuku, 78
		14254	Salop, 79
		14640	Salop, 79
O^{+8} +	O^{+7}	9377	Zhdanov, 76
Os^{+1} +	Os	8302	Duman, 74
P^{+1} +	P	8302	Duman, 74
		14000	Nikitin, 78
Pb^{+1} +	Pb	8302	Duman, 74
		14000	Nikitin, 78
Po^{+1} +	Po	8302	Duman, 74
Pt^{+1} +	Pt	8302	Duman, 74
Rb +	Cl	9001	Arora, 76
Rb +	F	9001	Arora, 76
Rb +	O	12051	Van Den Bos,
Rb^{+1} +	Cs	11111	Bottcher, 78
Rb^{+1} +	D^-	11474	Janev, 78
Rb^{+1} +	H	11111	Bottcher, 78
Rb^{+1} +	H^-	11474	Janev, 78
Rb^{+1} +	Hg	11111	Bottcher, 78
Rb^{+1} +	K	13358	Olson, 72
Rb^{+1} +	Rb	7268	Bardsley, 75
		7676	Montes, 75
		7762	Hodgkinson, 76
		8300	Sinha, 76
		8302	Duman, 74
		14764	Ferrante, 79
Re^{+1} +	Re	8302	Duman, 74
Rh^{+1} +	Rh	8302	Duman, 74
Ru^{+1} +	Ru	8302	Duman, 74
S^{+1} +	S	8302	Duman, 74
		14000	Nikitin, 78
S^{+16} +	H	9278	Bottcher, 77
Sb^{+1} +	Sb	8302	Duman, 74
Sc^{+1} +	Sc	8302	Duman, 74
Se^{+1} +	Se	8302	Duman, 74
Si^{+1} +	Si	8302	Duman, 74
		14000	Nikitin, 78
Si^{+2} +	H	8843	McCarroll, 76
Si^{+14} +	H	8170	Salop, 76
		9278	Bottcher, 77
		15054	Ryufuku, 79
Sn^{+1} +	Sn	8302	Duman, 74
Sr^{+1} +	Sr	8302	Duman, 74
		15231	Duman, 70
T^{+1} +	T	15425	Latypov, 73

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Ta^{+1}	+	Ta	8302	Duman, 74
Te^{+1}	+	Te	8302	Duman, 74
Ti^{+1}	+	Ti	8302	Duman, 74
Tl^{+1}	+	Tl	8302	Duman, 74
			14000	Nikitin, 78
U^{+1}	+	U	8300	Sinha, 76
V^{+1}	+	V	8302	Duman, 74
W^{+1}	+	W	8302	Duman, 74
Xe^{+1}	+	Cs	7009	Ice, 75
			7064	Herrick, 75
Xe^{+1}	+	K	7009	Ice, 75
			7064	Herrick, 75
Xe^{+1}	+	Rb	7009	Ice, 75
			7064	Herrick, 75
Xe^{+1}	+	Xe	7762	Hodgkinson, 76
			8300	Sinha, 76
			8302	Duman, 74
			13264	Duman, 72
			14000	Nikitin, 78
			14946	Johnson, 72
Xe^{+1}	+	$C_2H_2Cl_2$	10960	Su, 73
Xe^{+1}	+	$C_6H_4F_2$	10960	Su, 73
Y^{+1}	+	Y	8302	Duman, 74
Zn^{+1}	+	Zn	8302	Duman, 74
			15231	Duman, 70
Zr^{+1}	+	Zr	8302	Duman, 74
Br_2	+	K	8851	Yuan, 76
CO^{+1}	+	Kr	10514	Smith, 73
CO^{+1}	+	CO	7286	McCann, 75
			10317	Cosby, 74
			10514	Smith, 73
			10880	Flannery, 73
			12594	Flannery, 74
			14711	Evseev, 79
			15325	Bylkin, 71
D_2^{+1}	+	H	10576	Preston, 73
D_2^{+1}	+	D_2	6985	Moran, 75
			7905	Stocker, 74
			10301	Stocker, 74
DT^{+1}	+	DT	8824	Moran, 76
HD^{+1}	+	HD	8824	Moran, 76
H_2^{+1}	+	H_2	6717	Flannery, 75
			6985	Moran, 75
			7286	McCann, 75
			7905	Stocker, 74
			14711	Evseev, 79
			15325	Bylkin, 71
H_2^{+1}	+	H_2O	13536	Dagnac, 70
HT^{+1}	+	HT	8824	Moran, 76
I_2	+	Cs	9611	Aten, 77

ORIGINAL DATA

I_2	+	K	8851	Yuan, 76
			9611	Aten, 77
I_2	+	Na	9611	Aten, 77
N_2^{+1}	+	N_2	7286	McCann, 75
			10880	Flannery, 73
			12594	Flannery, 74
			14711	Evseev, 79
			15325	Bylkin, 71
NO	+	I^-	11349	Chantry, 71
NO^{+1}	+	NO	7286	McCann, 75
			10318	Moran, 74
			12594	Flannery, 74
			15325	Bylkin, 71
OH^{+1}	+	OH	15325	Bylkin, 71
O_2	+	H^-	12481	Levine, 71
O_2	+	I^-	11349	Chantry, 71
O_2	+	O^-	11349	Chantry, 71
			11357	Woo, 71
			14912	Rebentrost, 73
O_2^{+1}	+	O_2	7286	McCann, 75
			10318	Moran, 74
			12594	Flannery, 74
			14711	Evseev, 79
			15325	Bylkin, 71
T_2^{+1}	+	T_2	8131	Flannery, 76
			8824	Moran, 76
H_3^{+1}	+	H_2O	13536	Dagnac, 70
C_2H_2	+	H^-	15118	Su, 78
CH_3OH	+	H^{+1}	9814	Mach, 77
CH_3OH	+	H_2^{+1}	9814	Mach, 77
CH_3OH	+	H_3^{+1}	9814	Mach, 77
		H	15113	Greenland, 78
		H^-	10804	Demkov, 77

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C^{+2}	+	He	7013	Steigman, 75
H	+	O^{+8}	13059	Abramov, 78
H			14685	Duman, 79
H^*			15322	Vitlina, 70
H^{+1}	+	D	12218	Thorson, 78
H^{+1}	+	H	10852	Obedkov, 77
			10856	Crothers, 77
			13236	Dewangan, 75
			13661	Anderson, 75
			14255	Chatterjee, 78
			14877	Dubrovskii, 75
			15263	Das, 72
H^{+1}	+	He	10324	Alvarez-Rizzatti, 75
H^{+1}	+	C_2H_4	7708	Benoit, 75
He^{+1}	+	He	15035	Rai Dastidar, 79

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He^{+2}	+	Hg	10819	Niehaus, 77
Li^{+1}	+	He	10324	Alvarez-Rizzatti, 75
N^{+2}	+	H	15127	Butler, 79
N^{+3}	+	H	15127	Butler, 79
Ne^{+2}	+	H	14298	Butler, 79
CO^{+1}	+	CO	8997	Flannery, 76
H_2^{+1}	+	H_2	9137	Moran, 77
N_2^{+1}	+	N_2	8997	Flannery, 76
NO^{+1}	+	NO	8997	Flannery, 76
O_2	+	O^-	4947	Wagner, 71
O_2^{+1}	+	O_2	8997	Flannery, 76
- -			6977	Matsuzawa, 75
			7058	Steigman, 75
			7203	Bass, 75
			7268	Bardsley, 75
			7718	Aquilanti, 75
			8019	Macek, 71
			8433	Pradhan, 76
			8930	Tyufuku, 76
			9166	Shipsey, 77
			9549	McCarroll, 74
			9602	Msezane, 77
			9796	Dappen, 77
			9920	Briggs, 77
			10998	Schmidt, 73
			11121	Shipsey, 78
			11209	Storm, 72
			11386	Leventhal, 71
			11484	Shakeshaft, 78
			11820	Arora, 78
			12206	Dalgarno, 78
			13210	Coleman, 72
			13211	Urata, 72
			13254	Bylkin, 70
			13280	Mikhailov, 73
			13387	Mittleman, 73
			13517	Flannery, 70
			13597	Tai, 73
			13598	Duren, 73
			13609	Gallaher, 74
			13958	Crothers, 79
			14321	Presnyakov, 77
			14356	Light, 79
			14682	Presnyakov, 79
			14816	Schmalz, 79
			14821	Olson, 71
			14865	Band, 75
			14886	Massey, 72
			15008	Weglein, 79
			15040	Duman, 79
			15124	Spruch, 78
			15214	Chibisov, 79
			15255	Horwitz, 73
			15347	Vitlina, 73

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- -			15363	Bandrauk, 72
			15412	Brandus, 71
		H	15037	Duman, 79

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Ar	+	Ar	15012	Vehmeyer, 79
Ar	+	Kr	15012	Vehmeyer, 79
Ar	+	Ne	15012	Vehmeyer, 79
			15169	Valignat, 70
Ar	+	CsI	11148	Loesch, 72
Ar	+	N_2	12124	Anlauf, 71
Ar	+	H_2O^*	13238	Bickes Jr., 74
Ar	+	C_2H_2	7371	Nenner, 75
Ar	+	CH_4	7371	Nenner, 75
Ar	+	C_2H_4	7371	Nenner, 75
Ar	+	C_3H_4	7371	Nenner, 75
Ar	+	C_2H_6	7371	Nenner, 75
Ar	+	C_3H_6	7371	Nenner, 75
Ar	+	C_3H_8	7371	Nenner, 75
Ar^{+1}	+	N_2	7192	Fernandez, 75
Ar^{+1}	+	NH_3	13519	Bolden, 70
Ca^*	+	Na	15171	Steudel, 70
D	+	Ar	7922	Cantini, 75
H	+	Ar	7922	Cantini, 75
H^{+1}	+	C_5H_6N	11029	Doering, 72
He	+	Ar	7919	Grace, 75
He	+	He	5870	Gabriel, 58
He	+	Ne	7919	Grace, 75
He	+	HD	7742	Lang, 76
He^*	+	N	14327	Haberland, 77
He^*			14325	Gillen, 77
He^{+1}	+	Ar	13519	Bolden, 70
He^{+1}	+	He	7430	De Rijk, 74
He^{+1}	+	Kr	13519	Bolden, 70
He^{+1}	+	Pb	12861	Zartner, 78
He^{+1}	+	Xe	13519	Bolden, 70
He^{+1}	+	CO	13519	Bolden, 70
He^{+1}	+	H_2	13519	Bolden, 70
He^{+1}	+	N_2	7192	Fernandez, 75
			13519	Bolden, 70
He^{+1}	+	NO	13519	Bolden, 70
He^{+1}	+	O_2	13519	Bolden, 70
He^{+1}	+	CO_2	13519	Bolden, 70
He^{+1}	+	NH_3	13519	Bolden, 70
He^{+1}	+	CH_4	13519	Bolden, 70
He^{+1}	+	C_5H_6N	11029	Doering, 72

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He^{+2}	+	N_2	12227	Rogers, 78
$Hg^{\cdot}$	+	He	12880	Lukaszewski, 78
$Hg^{\cdot}$	+	Xe	12880	Lukaszewski, 78
K	+	K	15449	Geittner, 74
K^{+1}	+	Ar	10911	Powers, 73
K^{+1}	+	He	7921	Gislason, 75
			10911	Powers, 73
K^{+1}	+	Kr	10911	Powers, 73
K^{+1}	+	Ne	10911	Powers, 73
K^{+1}	+	Xe	10911	Powers, 73
Kr	+	Ar	15012	Vehmeyer, 79
Kr	+	Ne	15012	Vehmeyer, 79
Li	+	CO	10985	Dehmer, 73
Li	+	D_2	10985	Dehmer, 73
Li	+	N_2	10985	Dehmer, 73
Li	+	CO_2	10985	Dehmer, 73
Li	+	CH_4	10985	Dehmer, 73
Li	+	SF_6	10985	Dehmer, 73
Na	+	He	14814	Mossberg, 79
Na	+	Rb	12871	Ioli, 78
Na	+	CO	13998	Ray, 79
Na	+	NO	13998	Ray, 79
Na	+	CO_2	13998	Ray, 79
Na	+	CH_4	13998	Ray, 79
Na	+	C_2H_4	13998	Ray, 79
$Na^{\cdot}$	+	Hg	12224	Duren, 78
			14326	Duren, 77
Na^{+1}	+	Ar	10911	Powers, 73
Na^{+1}	+	He	10911	Powers, 73
Na^{+1}	+	Kr	10911	Powers, 73
Na^{+1}	+	Ne	10911	Powers, 73
Na^{+1}	+	Xe	10911	Powers, 73
Ne	+	Ar	15012	Vehmeyer, 79
Ne	+	Kr	15012	Vehmeyer, 79
Ne	+	H_2O	7918	Rulis, 75
			13238	Bickes Jr., 74
$Ne^{\cdot}$	+	$Ne^{\cdot}$	15203	Demidov, 78
$Ne^{\cdot}$			14325	Gillen, 77
Ne^{+1}	+	D_2	11180	Mahan, 72
			12865	Andersen, 78
Ne^{+1}	+	H_2	11180	Mahan, 72
Ne^{+1}	+	O_2	13519	Bolden, 70
$O^{\cdot}$	+	O_3	12139	London, 71
O^{+1}	+	D_2	12564	Gillen, 73
O^{+1}	+	HD	12564	Gillen, 73

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O^{+1}	+	H_2	12564	Gillen, 73
Ar_2	+	Ar	15012	Vehmeyer, 79
Ar_2	+	Kr	15012	Vehmeyer, 79
Ar_2	+	Ne	15012	Vehmeyer, 79
CN	+	Ar	10928	Luk, 73
CN	+	He	10928	Luk, 73
CN	+	CO	10928	Luk, 73
CN	+	D_2	10928	Luk, 73
CN	+	H_2	10928	Luk, 73
CN	+	N_2	10928	Luk, 73
CN	+	O_2	10928	Luk, 73
CN	+	CF_4	10928	Luk, 73
CN	+	CH_4	10928	Luk, 73
CN	+	C_2H_4	10928	Luk, 73
CO	+	Ar	12863	Carlson, 78
CO	+	He	12863	Carlson, 78
CO	+	CO	12863	Carlson, 78
$CO^{\cdot}$	+	CO	12151	Calo, 71
CsF	+	Ar	15111	McGinnis, 78
CsI	+	Ar	9231	Greene, 77
CsI	+	Xe	9231	Greene, 77
D_2	+	He	7742	Lang, 76
HF	+	HF	14363	Koura, 78
H_2	+	Ar	7693	Moerkerken, 75
H_2	+	Kr	7693	Moerkerken, 75
H_2	+	Ne	15169	Valignat, 70
H_2	+	Xe	7693	Moerkerken, 75
H_2	+	N_2	7693	Moerkerken, 75
H_2	+	CO_2	7693	Moerkerken, 75
H_2	+	H_2O	13238	Bickes Jr., 74
H_2	+	SF_6	7693	Moerkerken, 75
H_2 ·			14331	Reuss, 77
KBr	+	Ar	15111	McGinnis, 78
KBr	+	CH_3OH	11149	Donohue, 72
Kr_2	+	Ar	15012	Vehmeyer, 79
Kr_2	+	Ne	15012	Vehmeyer, 79
LiF	+	Ar	11933	Richman, 70
			12858	Menotti, 78
LiF	+	He	12858	Menotti, 78
LiF	+	Kr	11933	Richman, 70
			12858	Menotti, 78
LiF	+	Ne	12858	Menotti, 78
LiF	+	Xe	12858	Menotti, 78
LiF	+	N_2	11933	Richman, 70
$N_2^{\cdot}$	+	N_2	10995	Millet, 73

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$N_2^{\bullet}$	+	O_2	10995	Millet, 73
N_2^{+1}	+	N_2	10914	Buttrill Jr., 73
NO			14331	Reuss, 77
Ne_2	+	Ar	15012	Vehmeyer, 79
Ne_2	+	Kr	15012	Vehmeyer, 79
O_2	+	O_2	10567	Morrow, 73
CO_2	+	CO_2	12195	Agam, 78
$CO_2^{\bullet}$	+	CO_2	12151	Calo, 71
H_2O	+	H_2O	10922	Snow, 73
			13238	Bickes Jr., 74
NO_2	+	NO_2	10256	Haas, 75
CH_2F^{+1}	+	CH_3F	10914	Buttrill Jr., 73
D_2CO	+	Ar	10978	Yeung, 73
D_2CO	+	He	10978	Yeung, 73
D_2CO	+	Ne	10978	Yeung, 73
D_2CO	+	Xe	10978	Yeung, 73
D_2CO	+	D_2CO	10978	Yeung, 73
HDCO	+	HDCO	10978	Yeung, 73
H_2CO	+	H_2CO	10978	Yeung, 73
H_3S^{+1}	+	H_2S	10914	Buttrill Jr., 73
NH_3	+	NH_3	8227	Kano, 76
NH_3	+	NH_3	11261	Lemaire, 78
CH_5^{+1}	+	CH_4	10914	Buttrill Jr., 73
$C_2H_4Cl_2$	+	Ar	11167	Setser, 72
$C_2H_4Cl_2$	+	Kr	11167	Setser, 72
$C_2H_4Cl_2$	+	Xe	11167	Setser, 72
$C_2H_4Cl_2$	+	SF_6	11167	Setser, 72
– –			7999	Manus, 76
			8168	Bernstein, 75
			10333	Russ, 75
			12056	McDaniel, 70
			12567	Cooks, 73
			13648	Raczynski, 78
			13729	Cohen, 71
			14324	Champion, 77
			15009	Gentry, 79
			15285	Sauers, 74
			15313	Pauly, 73

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Ar	+	Ar	15012	Vehmeyer, 79
			15206	Robinson, 79
Ar	+	Kr	15012	Vehmeyer, 79
Ar	+	Ne	15012	Vehmeyer, 79
Ar	+	TlF	12083	Van De Ree, 71
			12121	Van De Ree, 71
Ar	+	D_2O	15119	Stace, 78
C^{+1}	+	H_2	10881	Mahan, 73

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D	+	Hg	7220	Stwalley, 75
F	+	H_2	12007	Schnabel, 78
H	+	D	10684	Harel, 77
H	+	H	10684	Harel, 77
			13590	Harberger, 73
H	+	Hg	7220	Stwalley, 75
			7924	Stwalley, 75
H	+	T	10684	Harel, 77
H^{+1}	+	H	13590	Harberger, 73
He	+	CO	10212	Ewing, 77
$He^{\bullet}$	+	He	7924	Stwalley, 75
He^{+1}	+	H	12252	Falcon, 78
K	+	Br_2	11502	Evers, 78
Kr	+	Ar	15012	Vehmeyer, 79
Kr	+	Kr	15206	Robinson, 79
Kr	+	Ne	15012	Vehmeyer, 79
Li^{+1}	+	CO	14051	Eastes, 79
Li^{+1}	+	N_2	14051	Eastes, 79
Li^{+1}	+	CO_2	14051	Eastes, 79
Li^{+1}	+	N_2O	14051	Eastes, 79
Na	+	He	7700	Wilson, 75
Na	+	CO	13998	Ray, 79
Na	+	NO	13998	Ray, 79
Na	+	Na_2	8116	Gelb, 76
Na	+	CO_2	13998	Ray, 79
Na	+	CH_4	13998	Ray, 79
Na	+	C_2H_4	13998	Ray, 79
$Na^{\bullet}$	+	He	12980	Hickman, 78
$Na^{\bullet}$	+	Hg	12224	Duren, 78
Na^{+1}	+	Ne	7732	Tolk, 75
Ne	+	Ar	15012	Vehmeyer, 79
Ne	+	Kr	15012	Vehmeyer, 79
O^{+1}	+	D_2	10890	Gillen, 73
O^{+1}	+	HD	10890	Gillen, 73
O^{+1}	+	N_2	14930	Van Zandt, 7
T	+	HT	12614	Wright, 75
Xe	+	Xe	15206	Robinson, 79
Ar_2	+	Ar	15012	Vehmeyer, 79
Ar_2	+	Kr	15012	Vehmeyer, 79
Ar_2	+	Ne	15012	Vehmeyer, 79
Br_2	+	Ar_2	13013	Freasier, 78
CO	+	He	10322	Monchick, 75
CsCl	+	$SbCl_3$	8002	Gislason, 76
H_2	+	He	12186	Schatz, 78
H_2			10860	Micha, 77

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Kr_2	+	Ar	15012	Vehmeyer, 79
Kr_2	+	Ne	15012	Vehmeyer, 79
N_2	+	CO_2	13984	Billing, 78
N_2	+	NH_3	11333	Shane, 71
Ne_2	+	Ar	15012	Vehmeyer, 79
Ne_2	+	Kr	15012	Vehmeyer, 79
CO_2	+	He	12618	Kistemaker, 75
CO_2	+	Kr	12186	Schatz, 78
CO_2	+	Xe	12618	Kistemaker, 75
H_2O	+	Ar	11321	Stace, 78
H_2O	+	H_2O	14938	Rai Dastidar, 71
O_3	+	Ar	11321	Stace, 78
O_3	+	He	11321	Stace, 78
O_3	+	Xe	11321	Stace, 78
NH_3	+	H_2O	14938	Rai Dastidar, 71
$C_2D_4Cl_2$	+	He	11166	Setser, 72
$C_2D_4Cl_2$	+	Ne	11166	Setser, 72
$C_2D_4Cl_2$	+	CO	11166	Setser, 72
$C_2D_4Cl_2$	+	CD_3Cl	11166	Setser, 72
$C_2H_4Cl_2$	+	He	11166	Setser, 72
$C_2H_4Cl_2$	+	Ne	11166	Setser, 72
$C_2H_4Cl_2$	+	CO	11166	Setser, 72
$C_2H_4Cl_2$	+	CH_3Cl	11166	Setser, 72
Molecules			15364	Connor, 73
			15366	Connor, 73
			15451	Nikitin, 74
– –			4433	Kim, 71
			5790	Percival, 73
			6502	Gerjuoy, 74
			7231	Coombe, 75
			7300	Garrett, 75
			7670	Micha, 75
			7754	Payne, 76
			7756	Strekalov, 75
			7916	Flannery, 75
			8002	Gislason, 76
			8168	Bernstein, 75
			8188	Davies, 76
			9031	Bernstein, 76
			9035	Bransden, 72
			9150	Shimoni, 77
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			9159	Ficocelli Varracc, 77
			9160	Micha, 77
			9161	Parker, 77
			9165	Dinterman, 77
			9310	Ficocelli Varracc, 77
			9567	Biolsi, 76
			9603	Wong, 77

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– –	9604	Eu, 77
	9646	McGuire, 77
	9797	Strek, 77
	9800	Augustin, 77
	9918	Piacentini, 77
	9919	Lin, 77
	9923	Melieres–Marechal, 77
	9925	Truhlar, 77
	9927	Khare, 77
	10115	Moiseiwitsch, 77
	10151	Sayasov, 77
	10152	Hansel, 77
	10206	Alhassid, 77
	10236	Buck, 77
	10240	Ficocelli Varracc, 77
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	10325	Sharma, 75
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	10336	Kreek, 74
	10341	Hunter, 74
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	10346	Hunter, 74
	10348	Kreek, 74
	10349	Pai, 74
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	10386	Duff, 77
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	10580	Snider, 73
	10582	McCourt, 73
	10861	Micha, 77
	10895	Adams, 73
	10897	Eu, 73
	10899	Shipsey, 73
	10900	Marcus, 73
	10901	Stine, 73
	10904	Sorensen, 73
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	10977	Rabitz, 73
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	11001	Cross Jr., 73
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	11079	Miller, 72
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	11128	Campos, 78
	11197	Chen, 72
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	11588	Salin,	78
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			15346	Ovchinnikova, 73
			15352	Kolchenko, 74
			15361	Manz, 71

COLLISIONS IN A RAD. FIELD EXPERIMENTAL

Al^{+12}	+	Al	12927	Beigman, 76
Ar	+	Ar	11844	Barocchi, 78
			12874	Frommhold, 78
			13190	Gersten, 70
Ba	+	Ar	14658	Ueda, 79
Ba	+	Kr	14641	Fujimoto, 79
			14658	Ueda, 79
Ba	+	Xe	14658	Ueda, 79
Ba^*	+	Ba^*	12937	White, 78
Ca	+	Sr	9430	Falcone, 77
Ca^{+1}	+	Sr	14531	Green, 79
Cs	+	Ar	9441	Su, 76
Cs	+	He	9441	Su, 76
Eu	+	Sr	12882	Cahuzac, 78
He	+	He	12938	Barocchi, 78
He	+	Kr	11195	Bar–Ziv, 72
He	+	Ne	9436	Siebeneck, 76
He	+	Xe	11195	Bar–Ziv, 72
He	+	N_2	11196	Bar–Ziv, 72
He	+	CO_2	11196	Bar–Ziv, 72
He	+	C_2H_2	11196	Bar–Ziv, 72
He	+	CH_4	11196	Bar–Ziv, 72
Kr	+	Kr	12873	Frommhold, 78
			13190	Gersten, 70
Li	+	Li	11485	Hellfeld, 78
Mg^{+11}	+	Mg	12927	Beigman, 76
Na	+	Na	12222	Eichhorn, 78
Na^*	+	Na^*	8279	Lucatorto, 76
Ne	+	He	13943	Kaniewska, 78
Ne	+	Ne	9436	Siebeneck, 76
			13943	Kaniewska, 78
P^{+14}	+	P	12927	Beigman, 76
Si^{+15}	+	Si	12927	Beigman, 76
Sr	+	Ar	9434	Carlsten, 77
Sr	+	Ar	13477	Szoke, 78
Sr	+	Ca	14365	Green, 79
Tl	+	Ar	11517	Raymer, 77
Xe	+	Xe	12873	Frommhold, 78
N_2	+	N_2	11398	Sheng, 71
CO_2	+	He	8994	Burak, 76
CO_2	+	CO_2	11383	Ho, 71
			11384	Birnbaum, 71
CF_4	+	CF_4	10469	Barocchi, 77
CH_4	+	CH_4	7069	Barocchi, 75
			10469	Barocchi, 77
- -			12081	Bar–Ziv, 71
			14638	Winn, 78

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Ar	+	Ar	12632	Shin, 75
Ar	+	Ar	13190	Gersten, 70
			13707	McTague, 71
Br	+	H_2	9431	Yuan, 77
			9432	Zimmerman, 77
			9438	George, 77
Cs	+	Cs	12761	Ostroukhova, 77
Cs	+	Ne	9929	Bonch–Bruevich, 76
Eu	+	Sr	12768	Harris, 77
F	+	Xe	11514	De Vries, 78
F	+	H_2	14529	Yuan, 79
H^*	+	Ar	12201	Bellum, 78
H^{+1}	+	H	14757	Ferrante, 79
He	+	Ar	11199	Miller, 72
			13445	Sharma, 75
He	+	Ne	12596	Sharma, 74
K	+	K	12761	Ostroukhova, 77
Kr	+	Kr	13190	Gersten, 70
			13707	McTague, 71
Li	+	H	12292	Lau, 77
Li	+	Li	13920	Shlyapnikov, 78
Na	+	Kr	14272	Czuchaj, 79
Na	+	Na	9928	Geltman, 77
			12761	Ostroukhova, 77
Rb	+	Cs	15194	Goodzenko, 74
Rb	+	Ne	9929	Bonch–Bruevich, 76
Rb	+	Rb	9929	Bonch–Bruevich, 76
			12761	Ostroukhova, 77
Sr	+	Ar	12975	Light, 78
Sr	+	Ca	9006	Geltman, 76
			12768	Harris, 77
Xe	+	Xe	13707	McTague, 71
CO_2	+	He	8994	Burak, 76

CO_2	+	CO_2	11383	Ho, 71
CH_4	+	CH_4	12028	Ozier, 70
- -			7612	Oraevskii, 75
			8220	Vetchinkin, 76
			9429	Knight, 77
			9433	Milonni, 77
			9435	Nienhuis, 77
			9439	Knight, 77
			9440	Copeland, 77
			9644	Lau, 77
			9645	Umanskii, 76
			9736	Akulin, 76
			10157	Gallagher, 77
			10373	Bellum, 78
			10383	Nienhuis, 77
			10471	Acharya, 77
			10584	Stone, 73
			10585	Goodman, 73
			10701	Lau, 77
			10703	Light, 77
			11300	Balucani, 78
			11379	Gray, 71
			11396	Freedhoff, 71
			11817	Berard, 78
			11921	Brandi, 78
			12243	Lee, 78
			12251	De Vries, 78
			12296	Copeland, 77
			12297	Payne, 77
			12298	Lam, 77
			12604	Weiss, 73
			12611	Lewis, 74
			12743	Mohan, 78
			12935	De Vries, 78
			12942	Copeland, 78
			12983	Bulanin, 78
			13001	Nayfeh, 78
			13139	Cooper, 78
			13189	Chang, 70
			13291	Matskevich, 74
			13447	Lewis, 70
			13485	Zhukova, 78
			13646	Bonch-Bruevich, 78
			13668	Watson, 70
			13679	Mollow, 70
			14040	Vartanyan, 78
			14045	Ferrante, 78
			14057	Nienhuis, 78
			14187	Cavaliere, 79
			14295	Robinson, 79
			14514	Lee, 79
			14533	Yeh, 79
			14747	Medvedev, 79
			14790	Mohan, 79
			14803	Yeh, 79
			14843	Brenner, 71
			14891	Kuhlke, 75

- -			15018	Payne, 79
			15042	Zhukova, 79
			15215	Andreev, 79
			15290	Fleming, 74
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J. R. Rumble, Jr.
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☐ Document describes a computer program; SF-185, FIPS Software Summary, is attached.

ABSTRACT *(A 200-word or less factual summary of most significant information. If document includes a significant bibliography or literature survey, mention it here.)*

An index to sources of data describing processes which occur when atoms, molecules ions collide with each other at energies between 0 and 10 keV and gain or lose ernal energy or change charge state is presented. The index facilitates retrieval cross sections and reaction rate data for specific processes involving atomic or lecular species. It includes data published during the years 1970 through 1979. comprehensive author list is included.

KEY WORDS *(six to twelve entries; alphabetical order; capitalize only the first letter of the first key word unless a proper name; separated by semicolons)*

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